

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

AUGUST 8 1964

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the weather!

recommend

'Anthisan'
cream

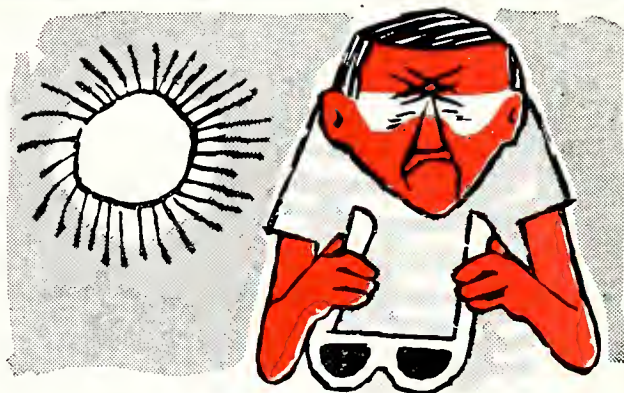
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'Anthisan' Cream.



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the month for harvests,
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and 'Anthisan' Cream.



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the months for bonfires,
chestnuts . . . early chilblains
and 'Anthisan' Cream.



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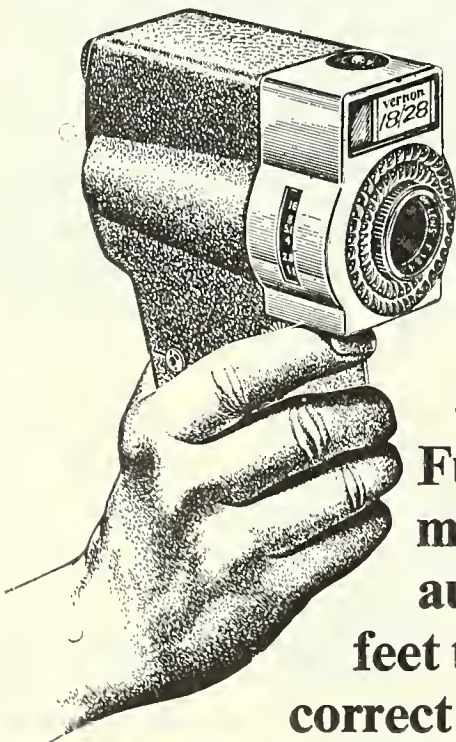
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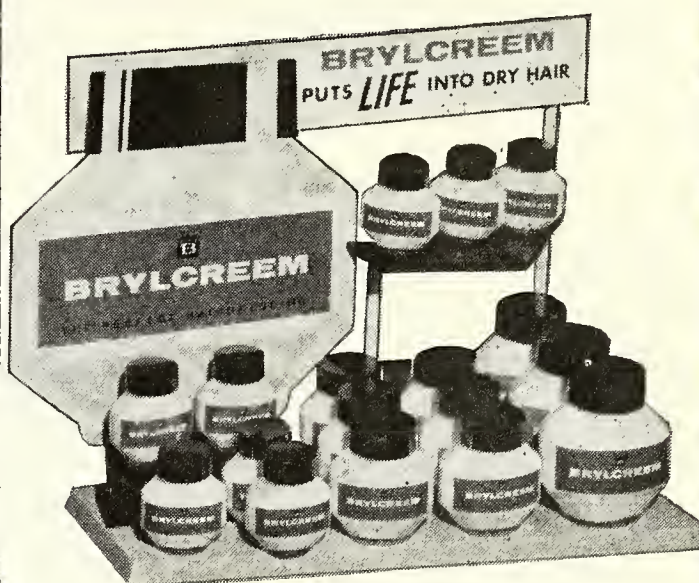
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No. 20



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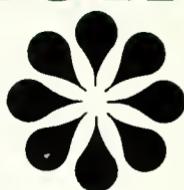


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giving unsurpassed quality and freedom
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TO
BUY
IT**

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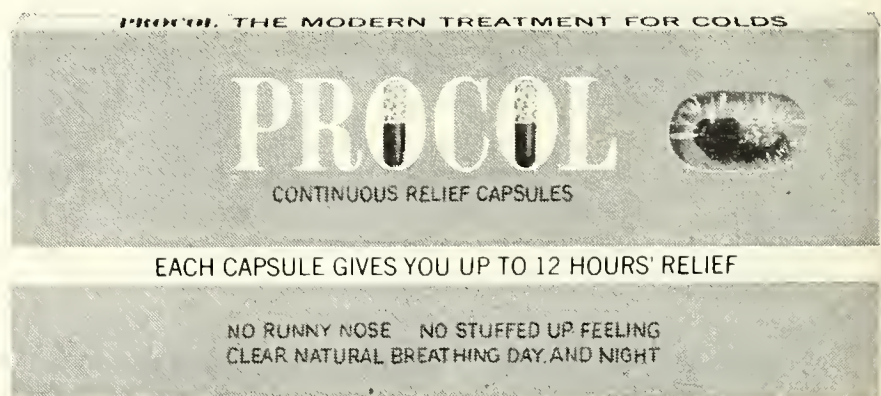
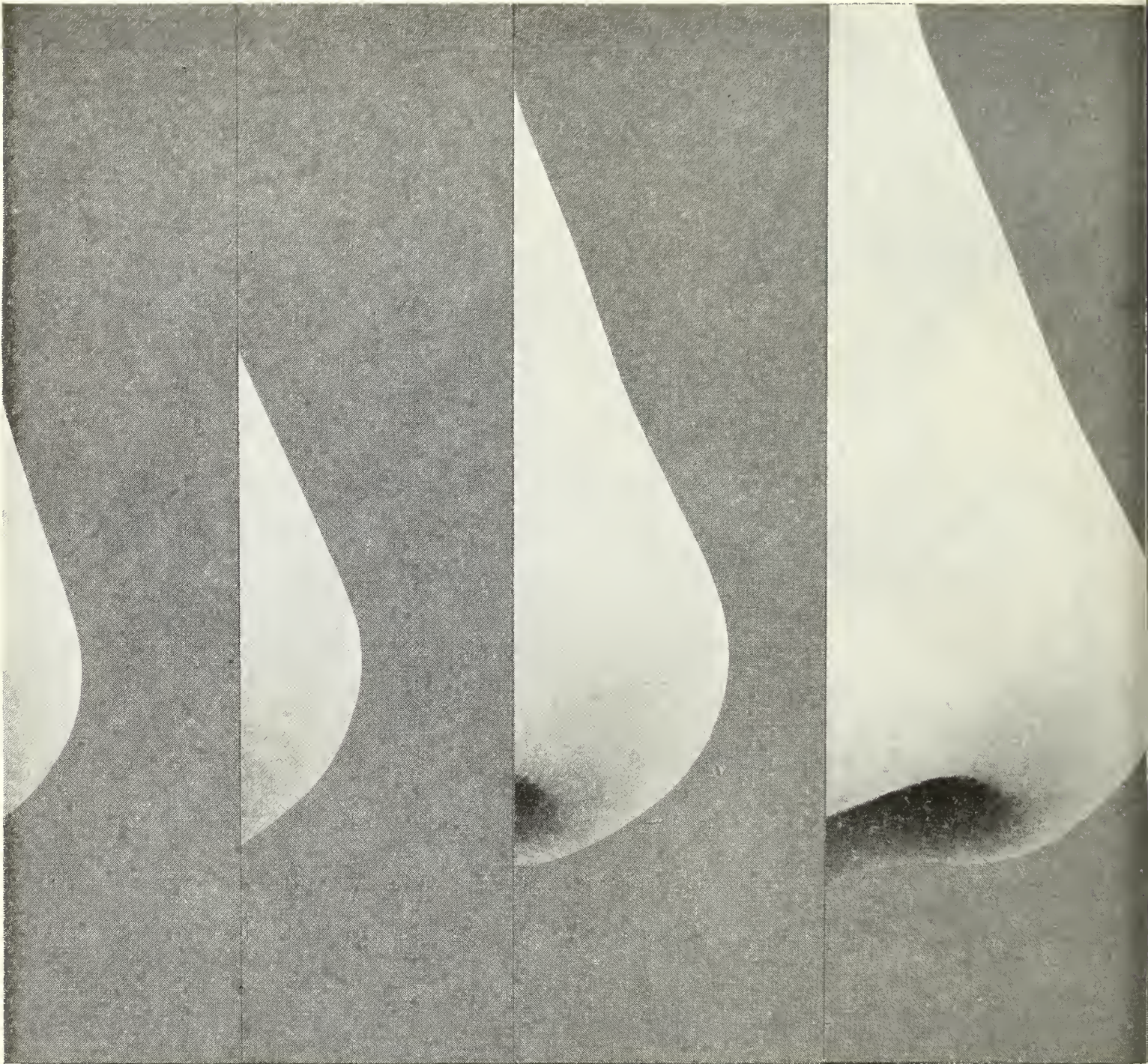


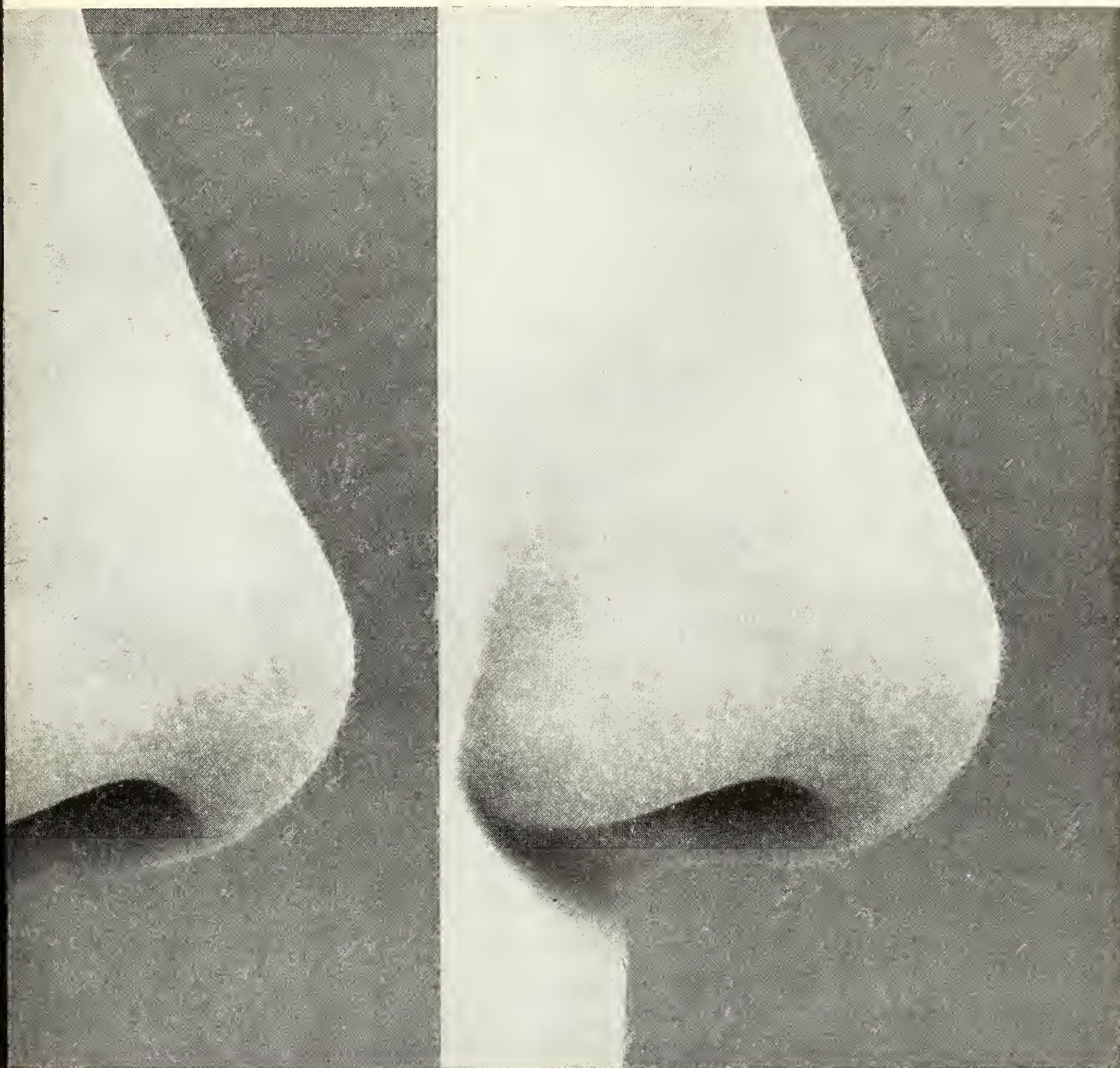
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Neutro-dent
SUPER DENTIFRICE

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The

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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY
and all sections of the drug, pharmaceutical,
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and of the Pharmaceutical Society of Northern Ireland*

Volume 182

August 8, 1964

No. 4408

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which includes The Chemist and Druggist Diary and Year Book, £3 10s. Single copies 1s. 3d. each (postage 5d.).



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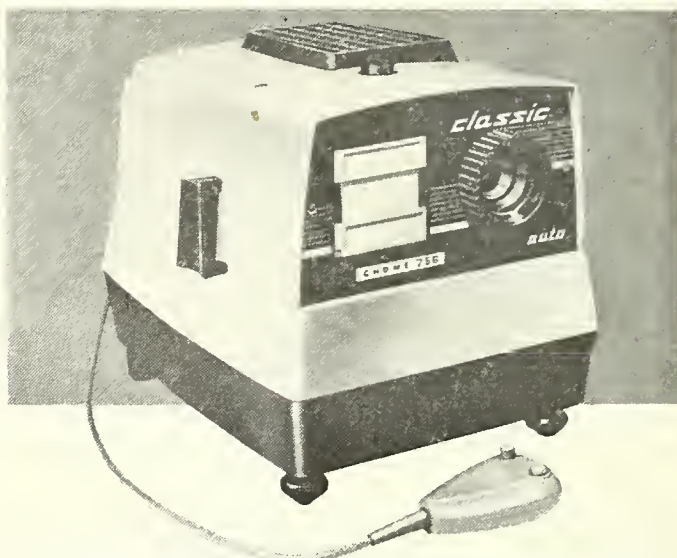
Be sure of your share of this expanding market

STOCK, DISPLAY AND SELL PADDI pads
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* **SPECIAL RETAILER DISCOUNTS** In addition to the usual profit margin you may obtain an extra discount of from 2½% to 10% on your orders for PADDI products.

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THE GNOME 756 AUTO CLASSIC
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FOR OVER 100 YEARS

P.A.T.A.

The CHEMIST AND DRUGGIST

Volume 182

AUGUST 8, 1964

No. 4408

N.H.S. Remuneration RETROSPECTIVE PAYMENTS

INSTRUCTIONS by the Ministry of Health to Executive Councils that the retrospective payments to chemists of twopence per prescription for all prescriptions dispensed during the calendar year 1962 and of fourpence per prescription for all prescriptions dispensed during the calendar year 1963 were dispatched to Clerks of Executive Councils on July 30.

The payment to each contractor is to be calculated from records, already in each Council's possession, of the total number of prescriptions certified by the Pricing Office for the relevant months. The payment is to be made so soon as possible. Where, since January 1962, there has been a change of ownership, or closure, of a chemist's business the arrears payable in respect of the prescriptions dispensed prior to the change are to be paid to the person who was the owner at the time the prescriptions were dispensed, or to his estate.

Nielsen Drug Index

MORE FROM N.H.S. DISPENSING

IN the March-April period receipts from the National Health Service provided just short of 42 per cent. of the total average weekly turnover of independent retail pharmacies, of multiple pharmacies 30.8 per cent. In both groups the figures were higher than were previously obtained, states the Nielsen Drug Index. The average weekly total turnover obtained by retail pharmacies during that period was £5,656,000, almost 5 per cent. above the figure for the corresponding period of 1963, and the N.H.S. receipts increased by 6.7 per cent., compared with 3.9 per cent. obtained by retail cash sales during the same period. Average weekly cash sales in retail pharmacies were:—Multiples £378; large independents £302; medium independents £167; small independents £85. Compared with the corresponding figures for 1963 the increased percentage changes were:—Multiples 5 per cent., all independents 3 per cent. Multiple pharmacies are estimated to have obtained 37.8 per cent. of the total turnover during the period, the large, medium and small independents obtaining 26, 19.9 and 16.3 per cent. respectively. Average weekly National Health Service payments per shop were:—Large independents, £215; multiples, £175; medium independents, £133; small independents, £82. During March, independent pharmacies dispensed 68.2 per cent. of the

National Health Service prescriptions, dispensing an average of 1,092 prescriptions per shop per month, whilst the multiple pharmacies dispensed 31.8 per cent., averaging 1,552 prescriptions per shop per month.

New London Areas

EXECUTIVE COUNCILS REDEFINED

NEW titles and areas for Executive Councils affected by the Local Government Act, 1963, have been announced by the Minister of Health (Mr. A. Barber). From April 1, 1965, the North-east London Executive Council will replace the present East and West Ham Executive Councils and also absorb from Essex Executive Council the boroughs of Waltham Forest, Redbridge, Havering, and Barking. It will have twenty-nine members. London Executive Council will be renamed the Inner London Executive Council. Its area will comprise the City of London and the London boroughs of Westminster, Camden, Islington, Hackney, Tower Hamlets, Greenwich, Lewisham, Southwark, Lambeth, Wandsworth, Hammersmith and Kensington and Chelsea. It will have thirty-nine members instead of the present twenty-five. Middlesex Executive Council will be reconstituted to include Hounslow, Hillingdon, Ealing, Brent, Harrow, Barnet, Haringay and Enfield. The number of members will remain twenty-five.

Cut-throat Competition

RAZOR BLADE MAKERS END R.P.M.

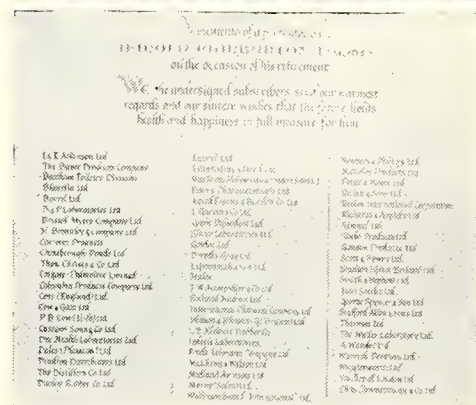
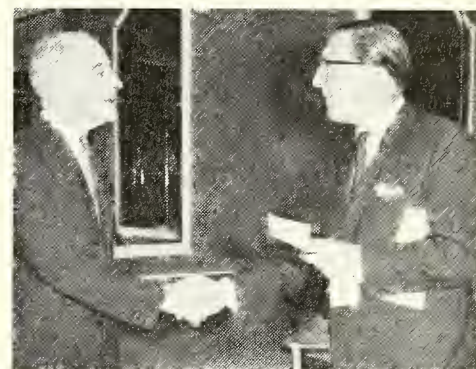
THE national Press were informed by the Gillette Industries, Ltd., on August 4 that the company had decided to discontinue resale price maintenance on all its goods. The managing director (Mr. H. Garnett) is reported to have said "We have decided to anticipate the strict letter of the law. The notice about conditions of resale at present printed on all Gillette packages and in price lists, will be removed as soon as practicable." The trade Press

received no simultaneous announcement of the company's intention.

Insurance Against Fire

HIGHER PREMIUMS FOR BUSINESSES

FIRE insurance premiums on commercial and industrial premises are to go up by an average of 10 to 15 per cent. from March 1, 1965, following a decision by the Fire Offices' Committee, which represents tariff companies handling the biggest share of fire insurance business. Lloyd's underwriters and non-tariff companies are expected to follow suit. The new premium rates replace the temporary flat 15 per cent. surcharge imposed in 1963 on commercial and industrial property unpro-



A TRADE FIGURE HONoured: On his retirement from the position of chief pharmacist, London Co-operative Chemists, Ltd. (see C. & D., July 18, p. 55), Mr. Harold Warburton, M.F.S., was presented with a cheque for £320 (subscribed by his many friends in the trade). The presentation was made at a buffet luncheon in Mr. Warburton's honour in London on July 31 that was attended by a large number of trade associates who came to wish him well in his retirement. The subscription had been organised by J. C. & J. Field, Ltd., and the cheque was presented by Mr. Robin Rigby (managing director of the parent company, Nicholas Products, Ltd.). With the cheque went the calligraphically written list of contributors reproduced in the lower illustration.

ected by approved sprinkler systems. It is understood that not all premiums are going up—some policyholders will pay the same as before and some even less. Premises protected by approved sprinklers already qualifying for premium discounts may pay even less. The new rates do not affect household insurance nor, in general, insurance against loss of profits resulting from fire. Insurance companies estimate that they lost £20 millions on fire business in 1963.

DRUG ADDICTION IN UNITED KINGDOM

Government report to the United Nations

THERE were 635 known drug addicts in the United Kingdom at the end of 1963, 103 more than the comparable figure of 1962. That fact has been disclosed in the Report to the United Nations by the United Kingdom Government on the Working of the International Treaties on Narcotic Drugs during 1963. The total of addicts does not include 26 addicts normally resident outside the United Kingdom but who received supplies of Dangerous Drugs while visiting the U.K. Some of the increase in addiction is accounted for by an increase in new addicts totalling 200 against 159 in 1962 and a greater number of recidivists, 26 against 10 in the previous year. The origin of the addiction in 355 addicts was therapeutic treatment. Fifty-six of the addicts were doctors or members of allied groups. Among the resident addicts were nine youths and eight girls under twenty. The drug sources of 624 of the addicts were licit by licit means. Two obtained drugs from illicit sources and one from an unknown source.

126 of the addicts used diacetylmorphine and cocaine and sixty-two used diacetylmorphine alone. 149 were addicted to morphine and fifteen to morphine and pethidine. There were ninety-four pethidine addicts, forty-one methadone addicts and fifteen were addicted to morphine and pethidine whilst the same number used dextromoramide. Twenty addicts used dipipanone, fourteen phenadoxone and sixteen levorphanol.

Trafficking in Narcotics

The Report states that though there is some illicit traffic in cannabis in the United Kingdom there is little in any other narcotics. There was no illicit manufacture of narcotics and no known diversion from licit channels, except by larceny of small amounts of manufactured drugs, and by addicts passing on to other persons small quantities of drugs they had obtained licitly. Members of ships crews and passengers were responsible for many illicit imports of cannabis as were several students who had visited Tangier. During 1963 there were 663 offences involving cannabis and there were thirteen convictions for attempts at importation and 650 for possession of the drug. Fines ranged from £1 to £1,000 and imprisonment from 1 day to 6 years. That was an increase on 1962 when there were 588 offences of which 558 were for possessing the drug. There were sixty-three offences concerning manufactured drugs of which twenty-four were of unlawful procur-

General Practice

WORKING PARTY REPORT

THE Working Party on General Practice issued, on July 31, its first interim commentaries on particular problems facing the family doctor. They deal with the distribution of general practitioners, absences on leave and the employment of locums, ancillary staff and the patient's use of the doctor's time. The working party says "There

ing, twenty-two unlawful possession and six obtaining drugs by false pretences. The drugs involved were diacetylmorphine, pethidine, cocaine and morphine. Among the methods used by traffickers to conceal drugs, the Report states, were a home made doll, in cakes (Jamaica), in hollowed books (Pakistan), in a motor car sent unaccompanied, and in sleeping bags (students returning to the United Kingdom from Tangier). Some fifty-seven kilos of opium were seized during the year under review of which seventeen kilos were released for manufacture of alkaloids, six kilos were used for Government purposes as samples for use in training and the rest destroyed.

Licensing Changes

In the section dealing with controls relating to factories, the Report states that the following changes occurred in 1963:—

(i) Macfarlan Smith, Ltd., Blandfield Chemical Works, Wheatfield Road, Edinburgh, 11, ceased to be licensed to manufacture oxymorphone and hydromorphenol.

(ii) Pure Chemicals, Ltd., Liverpool, were licensed to produce phenazocine.

(iii) Nicholas Research Institute, Ltd., 225 Bath Road, Slough, Bucks, surrendered licenses for experimental production of morphine resins and pethidine resins.

The following drugs were authorised to be manufactured during the year:—Anileridine, cannabis tinctures, cocaine, codeine, diacetylmorphine, diethylthiambutene, dihydrocodeine, dipipanone, ethylmorphine, hydrocodone, medicinal opium, methadone, morphine, morphine resins, normorphine, oxycodone, pethidine, pethidine resins, phenadoxone, phenazocine, pholcodine resins, propoxyphene, thebaine and thebaine. In addition the following were authorised to be manufactured but no manufacture was effected:—Benzethidine, furethidine, hydromorphenol, morpheridine, norcodeine, oxymorphone. Among those licensed by the Secretary of State were four ambulance services, twenty-five analytical research workers, six brokers, one manufacturer of dental anaesthetics, forty-nine manufacturers of patent and special medicines, three manufacturers of veterinary medicines, two merchants, eighteen private dispensaries and nursing homes, 169 wholesale dealers (includes general manufacturers) and fifteen miscellaneous. The Report points out that the "druggists sundriesman" shown in previous reports are now included in the figures of "wholesale dealers."

is no doubt that the total number of general practitioners needs to be increased but we cannot be certain of any material improvement in the doctor/population ratio before the 1970's." The best use and distribution must therefore be made of the available manpower.

Some form of extra payment is suggested for all doctors in an area which has remained short of doctors for some considerable time. In such areas hospital authorities should make special efforts to provide facilities for the general practitioner.

The working party stresses the importance of doctors having reasonable periods of holiday and time off for study courses; and to be able to go off duty when they are ill. The working party consider possible adjustments of methods of remuneration to remove financial obstacles to employing a locum and suggest that the Health Departments and the profession should negotiate satisfactory arrangements. When dealing with the topic "The Patient's Use of the Doctor's Time" the working party points out that it is therefore in everyone's interest to help the doctor to use his time to the best advantage. Doctors are not obliged to see a patient whenever and wherever the patient thinks fit.

On the issue of the commentaries, Mr. A. Barber (Minister of Health) said: "I am glad the working party have been able so soon to publish comments on these preliminary but important matters. We shall lose no time in pursuing with the profession the suggestions that the working party have made."

London Dock Charges

INCREASES NOW AND LATER

THE Port of London Authority is to increase its rates and charges in nearly every category except port rates (the levy on goods shipped through the port) on August 31. The increases range between 9 and 20 per cent. It is also announced that further increases in the next year or two will be made. Rising costs and fresh pay claims are given as the chief reasons for the higher rates and charges together with a desire to achieve the target recommended in the Rochdale Report on replacing assets out of revenue rather than seeking fresh loans. That Committee suggested that instead of drawing up accounts with depreciation based on historic cost, it should be calculated on replacement cost, and that there should be no provision for loan redemption.

Sulphuric Acid

PRODUCTION IN SECOND QUARTER

PRODUCTION of sulphuric acid (calculated as 100 per cent. H_2SO_4) in the second quarter of the year amounted to 776,086 tons (against 764,629 tons in the first quarter). Percentage of capacity in use was 90.6 (against 90.3 in first quarter), and sales were 792,078 tons (against 782,049 tons). The figures refer to plants owned by members of the National Sulphuric Acid Association, Ltd., and exclude all Government plants.

NEWS IN BRIEF

A PHARMACIST will appear in the Woman's Hour series "A Word in the Public Ear: From the Other Side of the Counter" on the B.B.C. Light programme on August 11.

AN after-hours emergency service by local chemists may be the subject of an investigation by the newly formed Islington (London) Consumer group, according to a report in the *Hackney Gazette*.

THE Minister of Housing and Local Government (Sir Keith Joseph) has decided to make an order designating 5,300 acres at Washington, co. Durham, for a new town with a population of about 70,000-80,000, including the present population of about 20,000.

FORTY-ONE infants' soothing powders, manufactured ten or more years ago and containing mercury (which has been connected with the onset of pink disease) have been found in two village general stores, according to the annual report of the medical officer of health for Essex.

MR. C. M. Howard, of E. Moss, Ltd., 129 High Street, Staines, Middlesex, won a voucher for £50 in a draw organised by Rank Photographic, Woodger Road, London, W.12, for dealers and their assistants who supported the recent Rank Photographic Fortnight promotion.

THE Offices, Shops and Railway Premises Act, 1963, came into force on August 1. Under the Act new standards are laid down for the safety, health and welfare of workers in offices and shops. From that date it is unlawful to employ anyone in such premises unless a fire certificate has been granted, or application for one has been made.

SEVENTY-SIX chemicals are listed in a new medical section in the latest catalogue of radioactive products published by the Radiochemical Centre, Amersham, Bucks. A recently developed product is a gelatin capsule containing iodine¹³¹ for diagnostic use. Also available is iodinated insulin-I¹³¹ which is used as an *in vitro* assay for plasma insulin.

THE Industrial Pest Control Association recently extended its membership by appointing two vice-presidents:—Mr. G. A. Campbell (recently retired joint managing director of the Geigy Co., Ltd. and a former president of the Association) and Dr. J. D. Gillett (head of the department of biology, Brunel College, London, W.3). They are the first appointments in an endeavour to widen the interests of the Association to bring within its scope, on an honorary basis, eminent personalities in the field of pest control.

SPORT

Golf

LIVERPOOL CHEMISTS' GOLFING SOCIETY. An invitation meeting was held at Childwall golf club of June 24. Results: *Evans Medical, Ltd.*, cup and prize, J. Charnock and R. Charnock, Ormskirk, 62. *Johnson and Johnson (Great Britain), Ltd.*, prize, W. J. Harris and J. Addie, Southport and Ainsdale, 63. *Liverpool Chemists' Golfing Society* prize, H. Standish and D. Jolley, Southport and Ainsdale, 64.

TOPICAL REFLECTIONS

By Xrayser

Family doctor service

In debate in the House of Commons on July 13 (p. 101), Mr. K. Robinson made reference to a speech of the Minister of Health (Mr. Anthony Barber) in which the Minister had told his audience that he would protect the family doctor from the minority of time-consuming patients who placed on doctors a burden out of all proportion to their numbers. I have no doubt that doctors are able to separate their patients into their different categories. As a pharmacist, I must confess I have not met any of the time-consuming minority. I feel sure they exist, for I frequently meet the individual who complains of the long wait he has had at the doctor's—occasioned by the fact that, in the opinion of the complainant, he was the only one in the waiting room who was really in need of the doctor's services, all the others being classed in the category of time-wasters. There must always be a minority who meet the description of hypochondriac, but I wonder if it is even fair to malign them, for there must be something out of gear in their make-up which does not fit any of the recognised physical conditions, and they may require medical attention just as urgently as the more obvious sick. I can scarcely conceive of anyone spending time in a doctor's waiting room, even in the most comfortable surroundings, unless he feels he has to, for the company is not (generally speaking) congenial. But, being only a pharmacist, I don't, as I have said, meet the genuine time-waster. I know of him only by hearsay, for the kind I meet in the daily round are only those whose time has been wasted. Mr. Barber recognised that the problem is one of an insufficiency of doctors and that that is where it must be tackled. Suggestions such as those made at the B.M.A. conference, that the remedy is to be sought in charging for consultations, found no support either from the Minister or his questioner. Quite enough damage has been done to the original concept of a National Health Service by introducing prescription charges which, despite assurances to the contrary, have resulted in hardship, without contemplating further financial barriers to medical care.

Remuneration settlement

Your correspondence columns continue to show that there is still a feeling of grievance over the terms of settlement of the chemist contractors' claim. The most disquieting feature, in my opinion, is that since 1961, with the introduction of the differential oncost, a wedge has been driven into the unified structure of the pharmaceutical service. As a letter on p. 105 suggests, the smaller business was "bought off" with an increased fee at that time, while the advantage of that fee to the large business was more than offset by the graduated scale of oncost. In the recent settlement, the balance has been altered again, and once more there is evidence of internecine strife. Nothing but harm can come from a breakdown of unity, and what happened in 1961 brought divisions which the latest settlement does not appear to have removed. Indeed, there is every appearance of aggravation. Efforts must be made to prevent perpetual splitting of the ranks. Only the Government could gain from that, and they may, in fact, have already done so.

Science sessions

The programme of subjects (p. 100) for the science sessions at the British Pharmaceutical Conference meeting to be held in Edinburgh next month shows how advanced the science of pharmacy has become. I am able to recall the time when the practising pharmacist could, out of his experience in his own dispensary, take part in the discussion of some of the subjects at such sessions. In the list published, one of the few with a ring of older days is that devoted to the assay of nux vomica and its preparations. The remainder demonstrate why so little extemporaneous dispensing is done in these scientific times. But what has happened to that perennial, the foxglove, this year? Is the climate of the capital of Scotland too severe for digitalis? Or has it, at long last, yielded up all its secrets as a result of generations of concentrated endeavour? Time will tell.

Pharmacists' Occupations Analysed

WHAT SURVEY REVEALED OF DISTRIBUTION BY AGE AND SEX

THE second professional session at the Edinburgh meeting of the British Pharmaceutical Conference in September will be discussing the man-power situation in British pharmacy today. The subject is being introduced by four opening speakers representing general practice, hospital pharmacy, industrial pharmacy and the pharmaceutical teaching profession respectively. Each of the opening speakers will have had an opportunity of studying the full report of the survey carried out by the Economist Intelligence Unit, Ltd., at the call of the Pharmaceutical Society's Council. The report is being put on sale at a later date, but is considered too costly a production for Branch Representatives present at the session to be equipped with at the Society's expense. Instead, they are being supplied with an "official" summary prepared at the Society's headquarters. The condensed presentation of the survey presented in these columns has been prepared from the report and summary by THE CHEMIST AND DRUGGIST.

Purely Fact Finding

The survey is essentially an analysis of the replies given upon questionnaire forms circulated to members in June 1963, supplemented by a second part in which the figures are "projected" forward to the period up to 1982 to show trends by age and sex. The response was the remarkably high one of 83.6 per cent. and therefore the validity of the figures and projections can hardly be questioned. One thing the survey makes no attempt to do is to give any analysis of distribution by area, which it could conceivably have done with the help of the Register itself. And of course it makes no suggestions about recruitment or redistribution or, in fact, any controversial matters. It is, in fine, factual material on which to base a line of action and in no sense an outline of policy. That is for Branch Representatives and members to argue about and for the Council eventually to formulate.

When the survey began the Register totalled 28,463. 1,834 members lived abroad. To the 26,629 in Britain a questionnaire was addressed on a reply-paid postcard. Cards returned totalled 22,139.

As estimated from the 83.6 per cent. of replies, males among the 26,629 number 21,565 (81 per cent.), females 5,064 (19 per cent.). Distribution of the totals between the various age groups is considered satisfactory for females. Of the males 68 per cent. are over forty-five years of age, and there is a substantial drop in the age groups under forty-five.

By occupation the Society's membership is made up as follows:—

BRANCH OF PHARMACY	TOTAL	PER CENT. (CALCULATED ON 26,262)
Retail	19,696	75.0
Hospital	1,699(?) (2,066?)	6.5
Industry	2,064	7.8
General	1,203	4.6
Retired	1,600	6.1
Total	26,262 (26,629)	100.0 (26,262)

The reason the numbers do not total 26,629 is that, if the total response from hospital pharmacists, 1,699, is taken as 83.6 per cent., then the estimated total would be 2,066. From other sources hospital pharmacists have been estimated to total "about 1,500—1,700," suggesting a response rate from hospital pharmacists greater than from other classes of member. By age group 63.8 per cent. in retail, 46.8 per cent. in hospital and 45.1 per cent. in industry are over forty-five years of age. Analysis of males by occupation gives the following results:—

MEN IN	TOTAL	PER CENT.
Retail	16,588	76.9
Hospital	759	4.3
Industry	1,953	9.0
General	984	4.6
Retired	1,117	5.2
Total	21,565	100.0

In retail 68.9 per cent. of males are over forty-five, in hospital 64.6 and in industry 46.4 per cent. Of all male pharmacists 67.5 per cent. are over forty-five. For females the corresponding figures are:—

WOMEN IN	TOTAL	PER CENT.
Retail	3,108	61.4
Hospital	940	22.6
Industry	111	2.2
General	219	4.3
Retired	483	9.5
Total	5,064	100.0

About three out of five females are in retail, one in five in hospital. Distribution by age group is satisfactory for retail but not for hospital. 63.6 per cent. of the total are below forty-five years of age.

The General Practice Situation

The 19,696 estimated to be in general practice (16,588 male, 3,108 female) comprise three-quarters of all pharmacists on the Register. For males the largest totals are in the age groups 45 to 64. If sixty-five is taken as retirement age, by 1984 the 8,001 males at present in those age groups will have fallen to 3,861. Nor are there, in those age groups, enough pharmacists in other occupations to make good the deficiency. Intake can be increased in that 20-year period, but the replacements will of course be men of lesser experience. Out of every ten male pharmacists in general practice five are in private pharmacies, four of the ten are proprietors and one a manager. The age distribution of male pharmacists employed by the multiples is much more satisfactory for continuity. It reflects the recruitment policy of the major companies and their policy of retiring male employees at age sixty.

Hospital Pharmacy

The total of pharmacists in hospital work may be taken as 1,699, which was the actual response obtained. 759 are males, 940 females. Thus out of every 100 male pharmacists, four work in hospital; out of every 100 females, twenty-two. Of the total of hospital pharmacists 33 per cent. are females under forty. Of the male pharmacists in hospitals only 24.5 per cent. are under forty-five years of age; of the female 67.6 per cent. are under forty-five and 61.3 per cent. under forty. Of every 100 of the males twenty are Group Pharmacists, fifty Chief Pharmacists, fifteen Senior Pharmacists and nine "basic grade" pharmacists. Of every 100 females one is a Group Pharmacist, twenty-nine are Chief Pharmacists, twenty-seven Senior Pharmacists and thirty-one Pharmacists.

Of male pharmacists in age group 25-29, 1,186 are in retail, 244 in industry and seventy-eight in hospital (females, 527, twenty-four and 217 respectively).

Pharmacists in Industry

Of the estimated total of 2,064 pharmacists in industry only 111 are female. Age distribution of pharmacists in industry is even, and maintenance of that register appears satisfactory. The following table compares male pharmacists in three age groups in industry with the corresponding numbers in hospital.

AGE GROUP	INDUSTRY	HOSPITAL
25-29	244	78
30-34	233	46
35-39	159	51

The sharp fall in the number of pharmacists under forty-five years of age in general practice does not occur in industry, indicating that industry has recruited a disproportionate number of pharmacists under forty-five. Of every 100 male pharmacists in industry forty-four are employed in sales and representation, twenty-six in administration, seventeen in research, development or quality control and thirteen in production.

Other Categories

Pharmacists who gave their occupation as "general" in the questionnaire represent 1,203 (4.5 per cent.) of those on the register. Seven out of ten males and four out of ten females so employed said that pharmaceutical knowledge was required in their employment. Male pharmacists are high in the age groups 25-35 and 45-54. Probably the largest group occupation under the heading is teaching. Full-time locum: tenentes total 832 males and 759 females in retail, thirty-nine males and 110 females in hospital. Males in part-time employment as locums are so few as to be negligible. For females the figures were 607 in retail and eighty-three in hospital. Allowance must be made for possible different interpretations by the ques-

tionnaire fillers of the category of their employment.

Figures as to route of qualification are less than clear cut since some pharmacists possess a degree as well as membership or fellowship. With that reservation the numbers of Fellows are 1,360 males, 278 female, of degree-holders 1,147 male and 564 female. Of the graduate males, 459 are in general practice, ninety in hospital and 328 in industry. For graduate females the corresponding figures are 213, 195 and forty-three.

Male graduates in the age groups 25-44 are employed as follows:—

AGE GROUP	RETAIL	HOSPITAL	INDUSTRY
25-29	129	28	89
30-34	100	10	82
35-39	48	11	45
40-44	33	7	36
	310	56	252

that age pharmacists show an advantage over the general population. A somewhat similar picture is suggested by the data for female pharmacists, though it is less clearly established owing to the much lower level of numbers involved.

The data indicate an annual figure for retirements of 125 (53 per cent. male and 47 per cent. female). For females about half the retirements occur by age twenty-nine years; for males, half at the age of fifty years and over.

If additions remain at that rate the estimated size of the Register in the

next twenty years becomes:—

YEAR	MALE	FEMALE	TOTAL
1962	21,265	5,040	26,305
1967	21,330	5,620	26,950
1972	20,125	6,225	26,350
1977	18,610	6,755	25,365
1982	17,480	7,355	24,835

Year 2002: Total register 22,000 (± 500).

“ Younger Register ”

Thus the percentage of females rises steadily (19.1 in 1962, 20.8 in 1967, 23.6 in 1972, 26.6 in 1977 and 29.6 in 1982). The Register will also get younger. The percentages under forty-five will be 31.6 male and 63.4 female in 1962; 34.9 and 68.1 in 1967; 42.3 and 68.4 in 1972; 49.1 and 68.5 in 1977; and 55.0 and 64.0 in 1982. Within that increasing fraction the pharmacists will be educated to degree standard. The report draws attention to the high proportion of pharmacists over sixty-five who remain in employment and whose names therefore remain on the Register. There is also a “loyalty factor” to the profession. The future depends on general economic factors not confined to pharmacy alone. Male pharmacists as a class are noted to have a greater expectation of life than the national average.

English and Scottish	Male	(65 per cent.)	420
	Female	(35 per cent.)	230
			650
Foreign and reciprocity	Male	(90 per cent.)	45
	Female	(10 per cent.)	5
			50
			700

Erasures from the Register for disciplinary and other causes are largely unpredictable “and must be taken, by and large, to cancel with restorations for similar reasons.” A method was devised (and cross-checked in a proportion of cases where the exact age had been notified at time of death) of converting Register age into an estimate of actual age. Deaths were analysed to obtain sex- and age-specific death rates for the usual five-year age groups. When the results were compared with the rates for males and females in England and Wales it was found that, for male pharmacists up to age forty-five, the figures are similar to the general statistics. After

OVERSEAS NEWS

SOUTHERN RHODESIA

New Association Formed

REPRESENTATIVES of the Rhodesian Pharmacists' Association met in Salisbury, Southern Rhodesia, on June 13 to form the Southern Rhodesia Pharmacists' Association, in succession to the former Federal organisation.

BELGIUM

Investigation into Health Service

BELGIAN doctors have reached agreement with their Government on an investigation to find out whether at least 60 per cent. of doctors would be in favour of a socialised medical service; the investigation is expected to last until October. The agreement proposes a maximum charge for medicines of twenty-two francs (three shillings). Previously patients had received a 75 per cent. reimbursement of the cost.

UNITED STATES

Cosmopolitan Annual Meeting

PHARMACISTS from Europe, Asia, Africa and Australia, as well as from the western hemisphere left to attend the 1964 annual meeting of the American Pharmaceutical Association, New York, August 2-7. From Britain Dr. T. D. Whittet (chief pharmacist, University College Hospital, London) was officially representing the International Pharmaceutical Federation at the American Pharmaceutical Association House of Delegates.

CEYLON

Harmful Drugs Sold Freely

OFFICIALS of the Ceylon Pharmaceutical Traders' Association have expressed grave concern at the free sale of drugs in the absence of a quality control laboratory. For example, penicillin topical ointment, which is not approved by the Formulary Committee, is being openly sold. Mr. J. Camillus (president of the Association) said recently that despite expectations, the total value of drug imports into Ceylon remained unchanged even after the elimination of the non-therapeutic drugs from the Formulary List.

KENYA

Investment in Pyrethrum Industry

THE Commonwealth Development Corporation is making a £300,000 loan to the Pyrethrum Processing Co. of Kenya, formed in October 1963 after an investigation into the Kenya pyrethrum industry. The Corporation has also agreed to invest £42,000 in shares in the new undertaking, which has now become operational. Main shareholders are the Pyrethrum Board of Kenya and the East African Extract Corporation (a member of the Mitchell Cotts group). Under proposals accepted by the Kenya Government the Board's factories at Nakuru and the Nairobi factory of the Corporation have been taken over by the new concern. Pyrethrum Processing Co. will operate as the contractor, while the Pyrethrum Board will remain responsible for licensing and marketing the extract on behalf of Kenya growers.

N.H.S. STATISTICS

In WARRINGTON in 1963 the National Health Service cost £408,324 of which £175,000 was for pharmaceutical services. £137,352 was spent on general medical services, £63,885 on general dental services and £20,290 on supplementary ophthalmic services.

In EAST SUFFOLK, 156,310 persons registered at January 1, obtained medicines from chemist-contractors; remainder (75,349) obtained them from dispensing doctors. During the year ended December 31, 1963, 582,513 prescriptions were dispensed by chemist-contractors, at a gross cost of £301,529; payments by patients totalled £60,773.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

THE Chancellor of the Exchequer was asked by MR. CLIVE BOSSOM on July 28 whether he would consider introducing a 4s. or 5s. piece instead of the present 2s. 6d. coin. MR. REGINALD MAUDLING (Chancellor of the Exchequer) replied in the negative, whereupon MR. BOSSOM asked why, as the United Kingdom was gradually moving towards the adoption of the decimal system, the 100s. or £5 could not be considered the unit of currency. Such a formula would save hundreds of thousands of pounds.

Dieldrin Supplies

MR. GODMAN IRVINE asked the Secretary of State for Education and Science what experiments were being carried out to provide farmers with an adequate substitute for dieldrin, and what results had been obtained. SIR EDWARD BOYLE (Secretary of State for Education and Science), in a written answer on July 30, said that active research was in progress to find alternatives to dieldrin. Against some pests, BHC could be used as spray, a sheep dip or a seed dressing. The development of new pesticides must remain largely in the hands of industrial laboratories able to devote much greater resources to such work than at official research institutes whose scientists, however, assisted industry in laboratory and field assessments of the usefulness of new chemicals.

Drug Addiction

MR. JOSEPH HILEY asked the Minister of Health to what extent he considered that the advice given by the Interdepartmental Committee on Drug Addiction in 1961 now needed to be reviewed. MR. ANTHONY BARBER (Minister of Health), in a written answer on July 30, announced that, in consultation with the Home Secretary and the Secretary of State for Scotland, he had reconvened the Interdepartmental Committee on Drug Addiction with the following terms of reference: "To consider whether, in the light of recent experience, the advice they gave in 1961 in relation to the prescribing of addictive drugs by doctors needs revising and, if so, to make recommendations." Membership of the reconvened Committee was given as:—Lord Braine (chairman), Messrs. A. Lawrence Abel and Donald W. Hudson, Professor A. D. Macdonald, and Drs. H. J. S. Matthew, S. Noy Scott, M. A. Partridge and A. J. Pitkeathly.

Labelling of Food

MR. JAMES SCOTT-HOPKINS (Joint Parliamentary Secretary, Ministry of Agriculture, Fisheries and Food) told MRS. JOYCE BUTLER, in a written answer on July 30, that it was hoped the report of the Food Standards Committee on the labelling of food would be published by the beginning of September.

Commission on Veterinary Recruitment

MR. CHRISTOPHER SOAMES (Minister of Agriculture, Fisheries and Food), in a written answer on July 29, informed MR. P. H. B. WALL that the Commit-

tee of Inquiry into Recruitment for the Veterinary Profession had submitted its report. The Committee did not foresee a shortage of veterinary graduates occurring during at least the next ten years. It was concerned, however, about existing arrangements for post-graduate training and research.

Experiments on Animals

MR. C. M. WOODHOUSE (Joint Under-Secretary of State, Home Office) informed COMMANDER KERANS on July 31 that the Committee on Experiments on Animals appointed in 1963 hoped to be in a position to submit its report by the end of the current year.

Samples of Drugs

MR. ERIC LUBBOCK asked the Secretary of State for the Home Department whether he would review the regulations governing the distribution by medical representatives of samples of drugs coming under Schedules S1 and S4a, in view of the danger of large quantities of sample drugs being diverted into illicit channels. MR. HENRY BROOKE (Home Secretary), in a written reply on July 31, said "The Poisons Rules require that a record shall be kept of the supply to a doctor of a commercial sample of a substance included in Schedule 1 to the Rules. The code of marketing practice for medical specialities of the Association of the British Pharmaceutical Industry further requires that samples of products that are restricted by law to supply on prescription, as are all substances listed in Schedule 4a to the Rules, must not be sent to doctors except in response to their instructions." Mr. Brooke was not aware of any danger of such samples of drugs being diverted into illicit channels but, if Mr. Lubbock had any evidence of such a danger, he would be glad to consider it. Replying to a further question by MR. LUBBOCK the Home Secretary said that the estimated number of "purple heart tablets and similar drugs" coming within Schedules S1 and S4a which were recorded as having been handed to doctors by medical representatives as free samples during "the most recent convenient month" could be obtained only by asking all suppliers to furnish extracts from their records for a particular month. He did not think that the work involved would be justified. He was informed by the manufacturers of Drinamyl tablets that they had withdrawn all supplies of the drug from their representatives in April 1963.

Medical and Hospital Services

LORD TAYLOR initiated a debate in the House of Lords on July 30 on the medical and hospital services. He said that, in the running of the Health Service, the Government had shown mediocrity, lack of vigour and drive, and almost no original thinking. LORD PEDDIE referred to the shortage of medical schools and the considerable restrictions placed upon medical research. He then said "There is only one section of the community associ-

ated with the medical service that has really found a bonanza in these conditions, and that is the manufacturers of proprietary drugs, who are willing to spend as much as £6 millions a year on promotions of various kinds to persuade doctors to prescribe their drugs. They are the people who have really gained from the way in which this Government have conducted the medical service over the past thirteen years."

BARONESS SUMMERSKILL asked the members of the House of Lords to remember that the drug industry spent something like £3 a week per doctor on advertising. The pressures on the doctor "had never let up." Every week the pressures were greater. "These commercial travellers with their glib tongues are knocking on the doors of the consulting room all the time."

The Houses of Parliament rose for the Summer recess on July 31 until October 19.

COMPANY NEWS

Previous year's figures in parentheses

BORAX (HOLDINGS), LTD.—An interim dividend on the Deferred Ordinary stock of 5 per cent. is declared.

F. W. HAMPSHIRE & CO., LTD.—Interim dividend is 7½ per cent. on capital doubled by scrip issue (equivalent 6½ per cent.). Results for half-year ended June 30, show a satisfactory increase over the same period of 1963.

NATIONAL STARCH AND CHEMICAL CORPORATION, New York, U.S.A.—Net sales for quarter ended June 30 were \$20,644,648 (\$18,300,052 in same period last year): income before taxes, \$2,332,119 (\$2,453,911) and provision for taxes, \$1,165,000 (\$1,274,000).

STEPHEN SMITH & CO., LTD.—Loss on trading for 1963 was £16,509 prior to payment of tax and preference share dividend. Tax is calculated at £19,559 on trading after April 1, 1963, but a repayment of £26,000 is claimed on trading prior to that date. The chairman states that the year carried exceptional expenses.

RANK ORGANISATION, LTD., and PULLIN GROUP, LTD.—The offers on behalf of the Rank Organisation, Ltd., for the share capital of the Pullin Group, Ltd. (see C. & D., June 13, p. 590), are now unconditional. Acceptances have been received in respect of all the Preference and of over 85 per cent. of the Ordinary shares. The offer for the Ordinary remains open until further notice.

LEWIS & BURROWS, LTD.—Group net profit of £94,438 is reported for the year ended March 31 (against a previous loss of £89,304). There is no Ordinary payment, as before—the last dividend was 10 per cent. for 1957-58. Freehold and leasehold premises were revalued as at March 31, and the surplus of £79,257 over the net book value has been transferred to the capital reserve.

FARBENFABRIKEN BAYER, A.G., Leverkusen, Germany.—The company report a turnover in the first half of the year of DM2,006 millions, about

12 per cent. higher than in the first half of 1963. Nearly half that amount went for exports. Total exports were up 15.6 per cent. in first half of 1964. The directors have advised shareholders that profits in first half had been "very satisfactory" and the favourable business activity was expected to continue during the second half of the year.

ELI LILLY INTERNATIONAL CORPORATION.—Mr. W. E. McIntosh, jun., has been elected vice-president for Europe, North Africa, and the Middle East, and will work in the corporation's London branch. Mr. McIntosh joined Eli Lilly & Co., as a salesman in 1949 after receiving a pharmacy degree from the University of Oklahoma. Since 1962 he has been serving as director of the Corporation's Latin America territory.

DIXONS PHOTOGRAPHIC, LTD.—The company is raising its total distribution by five per cent. to 40 per cent. with a final dividend of 25 per cent., and is making a one-for-one scrip issue in "A" shares. Simultaneously, the company announces that it has concluded a £400,000 deal to take over the retail side of B. Bennett & Sons, Ltd. Net profits of Messrs. Dixons for the year to April 30 have risen from £127,720 in previous year to a record £220,777, helped by a substantially reduced tax charge of £112,966 against £160,647.

AMERICAN CYANAMID CO.—Earnings of \$40,504,000 for the first six months of 1964 show an increase of 19 per cent. over the first half of 1963. Dr. W. G. Malcolm (chairman) said sales were a company record, reaching \$389,414,000 (\$356,267,000 for the first half of last year). The sales increase was reflected in almost all the company's major product lines, particularly agricultural chemicals, the only exception was in pharmaceuticals because of a lessened demand for antibiotics due to the low incidence of respiratory ailments during the first quarter.

BUSINESS CHANGES

THE telephone number of Cupal, Ltd., Blackburn, Lancs, is now Blackburn 50321.

THE telephone number of Graesser Salicylates, Ltd., Sandycroft, Chester, is now Hawarden 3444.

AEROFILL, LTD., Walmgate Road, Perivale, Middlesex, have formed a new company (Aerofill France S.A.R.L.) to manufacture, service and sell the complete range of the company's aerosol packaging machinery in France. The address in Paris is:—10 Rue de l'Ancienne Marie, Boulogne sur Seine, France.

Appointments

JOHNSONS OF HENDON, LTD., have appointed Mr. L. Stillwell their buyer in succession to Mr. F. J. White, who retires at the end of the month (see also column 2).

PHOTOPIA, LTD., Hempstalls Lane, Newcastle, Staffs, have appointed Mr. D. J. Addenbrooke representative in their West Midlands and Wales territory.

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15, have appointed Mr. M. H. Harris sales representative for Yorkshire, Northumberland and co. Durham.

G. D. SEARLE & CO., LTD., High Wycombe, Bucks, have appointed Mr. G. S. Sandles to the new position of field sales manager.

LILLY RESEARCH LABORATORIES, LTD., Bromborough, have appointed Dr. M. E. Tarrant their senior research biochemist.

ENERGEN FOODS CO., LTD., Ashford, Kent, have appointed Mr. P. J. Smith their sales manager. Mr. D. A. Rock has been appointed to fill Mr. Smith's position as Western divisional manager, and Mr. W. Ingram Smith, marketing manager.

PERSONALITIES

MR. J. W. COOPER, F.P.S. (a director of Moore Medicinal Products, Ltd., Aberdeen), retired on July 23. For many years Mr. Cooper was a lecturer at the Bradford Technical College (now the Bradford Institute of Technology).

DR. T. W. T. BAILLIE, who is works manager, British Oxygen Chemicals, Ltd., Maydown, nr. Londonderry, Northern Ireland, has been elected to the board of trustees of Magee University College, Londonderry. Dr. Baillie is already associated with the college through the advisory committee for the course in business management. He is also a member of the board of governors of the Municipal Technical College, Londonderry.

MR. F. J. WHITE, buyer at the chemical factory of Johnsons of Hendon, Ltd., retires at the end of August after forty-three years' service with the company. On joining the company Mr. White became responsible for advertising and catalogues; later he was on the road as a salesman for five years. He then joined the company's home sales department and was appointed buyer at the chemical factory twenty-one years ago.

MARRIAGES

O'CONNOR—CULLEN.—At Foxrock church, co. Dublin, Eire, on July 30, Christopher Stephen O'Connor (a member of the teaching staff, College of Pharmacy, Dublin), to Norma Cullen (formerly on the staff of the registrar, Pharmaceutical Society of Ireland).

DEATHS

BATES.—On July 17, Mr. Ernest Oswald Bates, M.P.S., 12. Caygill Terrace, Skircoat Road, Halifax, Yorks. Mr. Bates qualified in 1908.

BROWNE.—On July 26, Mr. Daniel Joseph Browne, M.P.S.I., 28 Grosvenor Square, Dublin, Eire. Mr. Browne, who was a native of Skibbereen, co. Cork, acquired the premises of Mr. William Ridd at Ballsbridge, Dublin, shortly after qualifying in 1947. He served his apprenticeship with the late Mr. S. B. Lester, Skibbereen, replacing the present president of the Society (Mr. D. J. Kennelly) in that capacity.

Keenly interested in all aspects of the profession, Mr. Browne was a man of high principle who was never afraid to express his views at annual meetings of the Irish Drug Association, in whose activities he took a lively interest. He is survived by his widow and three young children. There was a large attendance of pharmaceutical colleagues at the funeral, which took place from Gardiner Street Church to Glasnevin cemetery on July 28. The Pharmaceutical Society of Ireland was represented at the funeral by the president (Mr. D. J. Kennelly); the registrar (Mr. J. G. Coleman) and the dean of the College (Professor R. F. Timoney). The Photographic Dealers' Association was represented by Messrs. Lyall Smith and Frank Roche.

HERBERT.—On July 19, Mr. James Campbell Herbert, F.P.S., 47 Manse Road, Nairn (late of Nairobi, Kenya). Mr. Herbert qualified in 1921.

HICKMAN.—Recently, Mr. Walter Thomas Hickman, M.P.S., Rock Villa, Tutshill, Chepstow, Mon. Mr. Hickman qualified in 1906 and was for many years in business locally.

LEE.—On July 19, Mr. Harry Lee, M.P.S., 3 Kingsford Avenue, Radford, Nottingham. Mr. Lee qualified in 1913.

LEWIS.—On July 15, Mr. Robert Osric Lewis, M.P.S., 28B Priory Road, Hampton, Middlesex. Mr. Lewis qualified in 1940.

THOMAS.—On July 18, Dr. Hans Karl Thomas, D.Sc.(Eng.), member of the scientific staff of Dracogo, Gerberding & Co., G.m.b.H., Holzminden, W. Germany. Dr. Thomas was an authority on essential oils and aromatic compounds. He was a member of the Commission which is revising the German Pharmacopœia and a scientific adviser of the Association of the German Essences Industry.



WILLIAMS.—On July 6, Mr. Gwynne Williams, M.P.S., 8 William Terrace, Cardigan. Mr. Williams qualified in 1932.

EXPANSION PROJECTS

A NEW plant for the production of acetic acid is being built at Hull by the solvent division of the Distillers Co., Ltd. The plant should increase production capacity there of the acid to about 90,000 tons a year and is expected to come into operation in mid-1966.

THE agricultural division of Imperial Chemical Industries, Ltd., is spending over £300,000 on expanding its catalyst production capacity. Most of the expenditure will be at the division's catalyst factory at Clitheroe, Lancs, which makes the catalysts used in a wide range of chemical processes. The remaining expenditure will be at the company's Billingham works in co. Durham.

NEW PRODUCTS AND PACKS

PHARMACEUTICAL SPECIALITIES

Urokinase for Intra-ocular Use.—Leo Laboratories, Ltd., 155 Clipstone Street, London, W.1, recently introduced a preparation of urokinase for intra-ocular use in treating secondary hyphæma. Urokinase-Leo ophthalmic, a fibrinolytic enzyme extracted from human urine, is understood to be non-toxic and non-antigenic. Repeated applications to such highly sensitive tissues as the brain and the anterior chamber of the eye have not, it is stated, produced evidence of irritation. Urokinase-Leo, introduced through a small incision into the anterior chamber, sets up an enzymatic action that causes the clot to dissolve. It is then removed by irrigation. For ophthalmic use, Urokinase-Leo is available in ampoules each containing 5,000 Ploug units in a sterile lyophilised preparation made up for use with 2 mls of sterile physiological saline (pH 7.2-7.6). 5,000 units is the amount usually required in treating a case of secondary hyphæma.

FOODS

Savoury Slimming Biscuit.—Universal Laboratories, Ltd., Sandwich, Kent, announce a new savoury biscuit in their Trimetts range. New savoury cheese trimetts have, it is stated, an even crisper biscuit, tempting the palates of non-slimmers as well as slimmers.

COSMETICS AND TOILETRIES

Breath Freshener.—James, Samuel & Co., Ltd., 56 Fairfield Street, London, S.W.18, are the sole importers into Britain from Norway of Muncum breath freshener.

Deodorant and Antiperspirant for Men.—Two new products have been launched by Zygmunt (Bond Street), Ltd., 42 Old Bond Street, London, W.1. They are Ambassador deodorant and antiperspirant stick.

"Instant Clean Breath."—A metered aerosol mouth freshener, Halaspray, marketed by Geigy Pharmaceutical Co., Ltd., for Boehringer Ingelheim, Ltd., Isleworth, Sussex, is claimed to bring instant clean breath after eating, drinking, or smoking. The container holds enough to clean the mouth 180 times, "at less than a penny a time."

"Dry Spray" Deodorant.—Described as "an entirely new method of solving woman's most intimate hygiene problem," a new product, Bidex dry spray, is being marketed in the United Kingdom by Practical Pharmaceuticals, Ltd., Newcastle-on-Tyne, 2, who are sending all retail chemists one of the sprays on a counter card, together with a supply of leaflets. The makers stress that Bidex "is an entirely different product, and should not be confused with ordinary antiperspirant deodorants." It contains a germicidal agent that attacks the causes of odour.

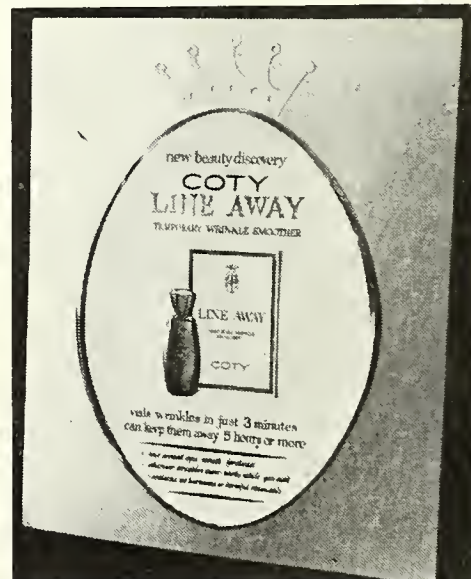
Liquid Eye-liner.—Lentheric, Ltd., 17 Old Bond Street, London, W.1, have just brought in from Paris Fixia liquid eye-liner in range of six shades "to high-light your eyes for the gentle look." The eye-liner is available in *noir*, *brun*, *bleu foncé*, *bleu clair*, *vert* and *gris* shades. For applying the eye-

liner there is available a slim black-and-gold Russian sable brush in the Lentheric blue, white and gold carton. Two new eye-shadow shades are *charbon du bois*, described as "a smart deep grey to add depth to the eyes," and *gris français*, a pale dove grey to give eyes "this year's pretty porcelain look."

A Perfume Series for the Young.—J. & E. Atkinson, Ltd., Bessemer Road, Welwyn Garden City, Herts, have introduced a new perfume series, *à toi*, comprising perfume, *parfum de toilette*, bubble bath, talcum powder, bath sparkles and bath cubes. The basic fragrance is described as being "completely in the modern idiom with exotic and precious woods providing evocative, musky undertones to an exquisite floral bouquet. A sparkling top-note vibrates through this sophisticated, new-as-tomorrow perfume." The launch comes exactly one year after the launch of *Chantage*, whose ready acceptance and popularity is understood to have led the company to introduce the new series in similar range. The *parfum de toilette* is in two forms: a conventional bottle and an aerosol (*parfum mist*). The packs are "gay and exciting with elegant bottles and containers." In the talc is a "built-in" deodorant. The bath sparkles (sesqui bath salts) in palest peach, are instantly soluble, and their fine particle size offers convenience in providing a luxury bath while helping to soften the water. The bath sparkles and bubble bath release maximum scent and foam when the liquid

is poured in under a full running tap. The pack colours combine shafts of oranges, reds and pinks to give an illusion of shot silk. The sleeves slip off revealing the bottle displayed on a black pedestal framed in white and topped with a dashing ribbon loop. A lattice window container was devised for the *parfum mist* to protect at point of sale and at the same time allow the attractive blazoned old gold aerosol container to be seen. The bottles are described as "pure elongated cubes," and half-diamonds of the products symbol are cut into the glass. The *parfum de toilette* presentation bottle is different in having a rounded base tapered to a slim neck with a flaring black cap. The unbreakable bathroom containers of talcum powder and bath sparkles are light to blend into almost any colour scheme and over-wrapped for dust protection at point of sale. The perfume itself is offered in "petite," ¼-oz., ½-oz. and 1-oz. sizes.

Now on British Market.—Already known in the United States, Line Away anti-wrinkle lotion is now being marketed in Britain by Coty (England), Ltd., 3 Stratford Place, London, W.1.



Line Away is a clear lotion formulated from natural proteins. It does not, state the makers, contain hormones or harmful chemicals. Not a face lift or treatment, it is claimed to veil facial wrinkles and under-eye puffiness. It may be used on all skin types where there are lines, wrinkles or under-eye puffiness, with exception in people with broken or irritated skins, or by any who are allergic to animal protein or eggs. It may be used by men also.

The new *à toi* perfumery series launched by J. & E. Atkinson, Ltd., 17 Bessemer Road, Welwyn Garden City, Herts, includes a bath range (bath sparkles, bubble bath oil and talc) shown above the perfume mist, toilet perfume and perfume.

TRADE NOTES

Sole Distributors.—Sole distributors of Teasdale chlorodyne are now Northern Pharmaceuticals, Ltd., Galen House, Bradford, Yorks.

Ridged Cap for Canister.—Wonder Set Hair Spray (makers: Reckitt & Sons, Ltd., Hull) has now a ridged cap on the 6-oz. canister and the price has been reduced.

Symbol on All Tablets.—To assist in tablet identification, all tablets manufactured by Geigy Pharmaceutical Co., Ltd., Wythenshawe, Manchester, 23, are gradually incorporating the Geigy symbol on all tablets they issue, both coated and uncoated.

Withdrawn.—FBA Pharmaceuticals, Ltd., Burrell Road, Haywards Heath, Sussex, have withdrawn from their range Comital and Comital L (both in packs of thirty and 100 tablets), and Periston N (packs of 1 x 100 mils and 5 x 100 mils) and of ten Fabahistin tablets.

Northern Ireland Distributor.—Stafford-Miller, Ltd., Hatfield, Herts, have appointed W. P. Moore & Co., 47 Ravenhill Road, Belfast, 6 (telephone: 56097) agents for the company's products in Northern Ireland. All orders in the territory should now be sent direct to Mr. W. P. Moore.

Home Hairstyles.—Ten girls with a flair for home hairdressing presented their own hair styles at a party in London recently to introduce the Dubarry range of hair preparations (see *C. & D.*, June 13, p. 592). The girls were introduced by David Jacobs, who also told the audience which of the Dubarry products each girl had used.

Optical Orders Round the Clock.—Degenhardt & Co., Ltd., 20 Mortimer Street, London, W.1, United Kingdom distributors for optical goods, instruments, photographic equipment and binoculars manufactured by Carl Zeiss and Zeiss Ikon, West Germany, have installed a telephone answering service for receiving orders or messages at any time—day or night. The number is Langham 6097.

Reintroduced.—Delayed by unforeseen circumstances from being reintroduced by Parke, Davis & Co., Staines Road, Hounslow, Middlesex, in March as intended (see *C. & D.*, March 21, p. 282), Dermalac is now available for sale. Dermalac is a soothing skin lotion that keeps the skin soft, smooth

and supple and counteracts the after-effects of water, wind, sun or wintry weather. It is understood to be also an excellent skin cleansing lotion and make-up remover. Dermalac was discontinued in August 1963, but its withdrawal met with numerous requests for its reintroduction from both pharmacists and former users. The product is now in a window pack with butterfly design.

Sodium Cyclamate.—Anticipating a new amendment to the Artificial Sweeteners in Food Order of 1953, allowing the use in Great Britain of sodium cyclamate as a sweetening agent in food and drink for human consumption, John & E. Sturge, Ltd., Wheelays Road, Birmingham, 15, have made trial quantities of the compound available, over the past few months, to many interested manufacturers and hospitals. The company have also prepared a series of recipes using sodium cyclamate as a substitute, or major substitute, for sugar. Copies of the recipes are avail-

able to responsible authorities on application to the company. They include sugar confectionery, dietetic marmalade and jams, soft drinks, sauces and pickles, and flour confectionery. Sodium cyclamate is advocated on the basis that it is non-toxic and readily soluble in water and has no unpleasant after-taste. It is also stable to heat, light and air, and unaffected by acids or alkalis or by cooking. It does not support the growth of organisms, and may thus be used in pharmaceutical preparations.

Christmas Showrooms

THE following have been notified:—
COTY (ENGLAND), LTD., North British Hotel,
EDINBURGH, August 10-13.

Bonus Offers

UNIVERSAL LABORATORIES, LTD., Sandwich, Kent. Trimetts new savoury biscuit. Thirteen packets invoiced as twelve. Introductory bonus.

INFORMATION WANTED

THE Editor would appreciate information about:
Dreamtime electric blankets
Reynolds products for pigeons

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Thoughtful Bureaucrats

SIR,—As one who has never failed to criticise bureaucracy and pour scorn on weakness and inefficiency, may I offer my sincere thanks and appreciation to the London Executive Council for its consideration in delivering my N.H.S. cheque by hand during the recent postmen's strike—and late on a Saturday evening, too! Who was our nameless friend behind the scenes who suggested the idea? N. BUCKLEY,
London, S.W.11

Unethical?

SIR,—I would be interested to know why the copy in Messrs. Gerber's advertisement differs in two chemists' journals. In the *C. & D.* the name of "a typical chemist" (whatever that may be) is given in full, whereas in the *Pharmaceutical Journal*, the name is "withheld for ethical reasons." There must be some point in this—could it possibly be that your worthy publication does not hold the code of ethics *re* advertising as sacrosanct as our distinguished mentors of the Society?

D. M. COWEN, M.P.S.,
(A "typical" chemist?)
Leeds, 8

[THE CHEMIST AND DRUGGIST holds in the fullest respect the Statement Upon Matters of Professional Conduct, but does not regard an announcement for baby foods within its pages as being "in connection with the distribution to the public of any medicine."—EDITOR.]

Valedictory

SIR,—Following upon my retirement I should like to place on record my sincere appreciation of the valued assistance given to me during my business career by manufacturers and professional bodies with whom I have asso-

ciated. Without the warm friendship shown by all concerned and the advice so freely given, my duties as a superintendent chemist to a corporate body would have proved much more difficult and onerous. Needless to say I shall treasure the memories so created.

HAROLD WARBURTON,
Westcliff-on-Sea

Emulsifying a Merger

SIR,—Mr. Edgar M. Williams, writing in your issue of August 1 on the subject of Ucal/Unichem, says I should know that oil and water do not mix. Surely Mr. Williams knows that they can be made to mix. With the addition of an emulsifying agent and the application of "know how," the result is a stable homogeneous mixture. No better example could have been chosen to illustrate the result one would wish to obtain from a merger of these two companies, both of whose interest lies in keeping private retail pharmacy alive and prosperous in the face of competition. As a member who values and appreciates the service given by the Unichem organisation, even in Cheltenham, which is the home of Ucal, I am unselfish enough to want as many as possible of my fellow private pharmacists to benefit from what they are now missing, dividends on their investments included. W. TALVAN REES,
Cheltenham

What the Customer Demands

SIR,—May I say that the letter headed "Infra Dig" (*C. & D.*, July 18, p. 59) and signed by N. H. Radcliffe, is, in my opinion utter piffle. This is the typical outlook of the out-dated, stick-in-the-mud, "a chemist I am and a chemist I shall die," pharmacist of yesteryear—no business aptitude, no conception of the modern outlook of



small, well-stocked stores *à la* Boots, etc.! What the customer demands he must get—surely that is logic. Never mind the monotonous drone of the pseudo-professional pharmacist. It is the likes of N. Radcliffe & Co. who keep pharmacy behind the times and under a vague cloud of no-man's-land of retail business and dispensing, instead of concentrating on running their businesses in an efficient and profitable manner, as do so many up-to-date grocers. May I say that (along with many other Coventry chemists), I have sold stockings for a number of years and as far as I know it has not impaired in any way my proficiency as a dispenser of medicines to the public—who are our breadwinners and not our servants. The sooner Messrs. Radcliffe & Co. disappear from the scene of Britain's pharmaceutical life, the longer will the rest of us last out.

H. D. JARDINE,
Coventry

Remuneration Settlement

SIR,—The letter from Mr. G. Morgan (*C. & D.*, August 1, p. 105) has the wrong approach to the question of remuneration. Why does he not examine the true overall picture instead of quibbling that one class of contractor will be better or worse off than another? If no change had been forthcoming, the average net ingredient cost would still increase by 4.5d. per prescription, i.e., from 75.5d. in 1963 to 80d. in 1964. Add oncost at average 18 per cent. = 0.7d., giving a total of 5.2d. per prescription or approximately £4½ millions on 205,500,000 prescriptions. I stress that this would have to be paid at the old terms. The true increase in remuneration then is £1½ millions or restoration of the 1961 cut. What has happened to the £3 millions extra for expenses promised by the Minister in April? It appears to me that the Contractors Committee have fallen for a well-thought-out confidence trick.

J. A. COOKE,
Grimsby, Lincs

SIR,—Mr. Morgan's letter (*C. & D.*, August 1, p. 105) rightly suggested that those smaller contractors who are at the moment so volubly protesting because, under the new settlement, they are not to receive as big an increase as the medium and larger contractor should at least have waited until this question of a subsidy for the rural area chemist had been resolved. What Mr. Morgan failed, however, to draw attention to are the two different types of smaller contractor and the totally different treatment which they merit. I think the majority of contractors will not be averse to some form of subsidy by way of a differential or adjusted fee to assist those chemists willing to provide a service to rural areas. We must all agree that, for the good of pharmacy as a whole, it is most desirable that such a service should be provided. The overall cost to contractors would obviously be small, but the benefit to those entitled to receive it large, since their numbers are few. The other type of smaller contractor, however, has in my view no right whatever to be subsidised, and I am referring to the "sit on your door-

step" man, the one who, seeing a vacant shop with an existing chemist nearby already established and who appears to be prospering, decides to open up in opposition "on his doorstep." More often than not there are no economic or public need grounds for his so doing. Having skimmed the cream from the established chemist, he still finds, however, that there is only a bare living to be made, and now he squeals because the "subsidy" which he has been receiving these past two-and-a-half years at the expense of the chemist upon whose doorstep he has sat, is likely to disappear with the dropping of the present differential oncost. I suspect that many of those now so volubly protesting are in this latter class. For that reason alone the discontinuance of the differential system of oncost, which subsidised the undeserving equally with the deserving, is to be welcomed, and the decision of the conference to pursue a course that channels any subsidy to where it is needed and is justified is to be applauded. I hope the Committee will not be deflected from this commendable course of action.

A. C. CURD,
Isleworth, Middlesex

Titles in Variety

SIR, — Not all eighteenth-century apothecaries practised medicine to the same extent. Joseph Clutton, for example, appears to have conducted a few clinical trials of his medicines, but preferred to be called "Chymist" in the 1730's, much earlier than your contributor Dr. Whittet suggests (*C. & D.*, July 25, p. 86). His two apprentices, Maurice Clutton and Thomas Corbyn, confined their activities to wholesale dealings, supplying hospitals and apothecaries in many parts of the country. A Hampshire directory of 1784 records nearly every possible combination of titles used in the medical field (Apothecary; Chymist and Apothecary; Surgeon, Apothecary; Surgeon, Apothecary and Man-midwife; Surgeon; Physician; Druggist and Chymist) by practitioners in Winchester. These titles, almost certainly, reflected the varied interests of those named, and indicate that, although the majority of apothecaries were practising medicine, some were content to practise as apothecaries. The failure of the majority to protect the interests of those practising pharmacy only led to a catastrophic decline in pharmaceutical practice. In 1792 another directory for Winchester includes only two apothecaries, one, a freeman of Winchester practising as Surgeon Apothecary and the other a Chemist and Apothecary. No one was described as "Apothecary" except at the Hospital, and even here the apothecary's full title was Apothecary and Secretary. During the early nineteenth century the hospital Apothecary became the House Surgeon, and the dispensing of medicine was, for a time at least, placed in the hands of a French pastry-cook. The dispenser was literally the physicians' cook as the physicians had once insisted the apothecaries were.*

W. H. BOORMAN,
Whitchurch, Hants

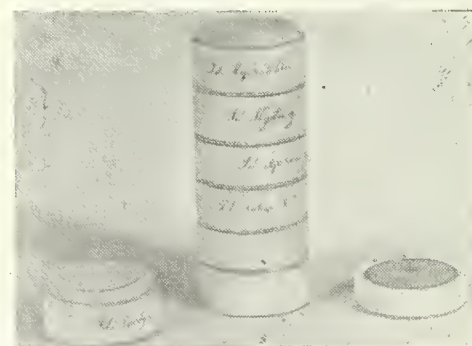
*Awaiting publication elsewhere.

Friends of Whom?

SIR,—I have once before written in this column appealing for unity among the members of the pharmaceutical profession, and I again make the same appeal. This time I am motivated by the "eye-opener" written by R. J. Hayhurst, Nelson, Lancs, under the heading "Friends of the Grocer." In any commercial venture involving expansion, somebody has to be found to foot the bill, whether it be new advertising, launching a new product, or expanding the number of outlets for a product. I am sure all pharmacists have found this in their own businesses. It is seldom, however, that a person or firm is fortunate enough to find people stupid enough to put up the money to finance expansion for their own competitors. That is exactly the position we (the pharmaceutical profession) find ourselves in at the moment. By purchasing goods from firms which are expanding into grocery outlets, we are simply supplying the money for that expansion, and if we continue to do so we shall eventually reach a point where the manufacturers can disregard our objections and sell through "grocers only." Unity is the one answer to most of our problems. Unity can only lead to strength. If every chemist were firmly united behind a central body, and decided to withdraw support from a certain product, many manufacturers would have to have second thoughts, or close down. In his letter Mr. Hayhurst finishes with the words "Too late" will be the cry." If we do not act now and unite our efforts, then future generations of pharmacists will have nothing to cry "too late" about. When will pharmacists learn that to fight among themselves is playing right into the hands of the grocer and the "friends of grocers," but to unite and show a solid front will not only impress the manufacturers and halt the drift to grocers, but will also make the Ministry of Health more careful when they decide to kick us about? I must admit that I have not sold 3 doz. Tixylix this year, but I have sold more Nu-Soft tissues and toilet rolls than I ever sold of all other products in these two categories put together. Three cheers for N.P.U. products. Let's have more as good as these, and let's have unity in recommending them.

R. F. S. THORNTON,
Newcastle, co. Down,
Northern Ireland

A PHARMACEUTICAL BYGONE



A nest of seven ivory pillboxes, two of them unlabelled, in the Alton, Hants, museum.

Surely this must be the Success Story of the Year

INECTO Hint of a Tint

**Sales in the first year
were 20 times more
than the original
target figure!**



The fantastic success of Inecto Hint of a Tint proves that it is just what the public wants—a skilfully blended luxury shampoo that highlights the hair without changing its natural colour. Hint of a Tint is for regular weekly use as it does *not* create a colour build up. Ideal for dull, dreary hair it is the perfect companion shampoo for all semi-permanent and permanent colourings and contains its own built-in conditioner.

In five fabulous shades—
Hint of HONEY · Hint of GOLD · Hint of CHESTNUT
Hint of COPPER · Hint of SILVER

**POWERFUL ADVERTISING WILL BE BRINGING YOU
MORE HINT OF A TINT SALES—CHECK YOUR STOCKS!**

Your profit on a dozen sachets is 4/-

Retail price 1/2. Wholesale price 8/- a dozen plus P.T. Available in an attractive counter display outer, complete with colour selector, which contains 1 dozen of each of the 5 shades: wholesale price 40/- plus P.T.

INECTO HOUSE · DOVER STREET · LONDON W1

Sole Agent in the Republic of Ireland: VICTOR E. HANNA LTD · NORTH ROAD · FINGLAS · DUBLIN 11



**Now available
in this new
economy size
bottle**

Retail price
48/- per doz.

Wholesale price
27/- per doz. + P.T.

**YOUR PROFIT
14/3** per doz.

EXTRA PROFIT LINE—FOR YOU

Here is something really new.

New market—new product—extra profits

Brings *instant clean breath*—after eating, after drinking, after smoking, any time, any place

Inevitable consumer demand

Tremendous promotional support—memorable pack

Cleans the mouth 180 times—at less than a penny a time

DISPLAY FOR PROFIT

Eye-catching counter and window displays to seize your customer's attention, remind him of promotion, make sure of sales. **And a special offer—your window dressed *free* with a HALASPRAY display.**

SATURATION TV PROMOTION

—in all these areas: London, Southern, Midlands, North, Tyne-Tees —with massive bookings of 30 and 15 second commercials at peak viewing times.

FULL PRESS COVERAGE

A nation-wide public relations campaign at the time of the introduction—and a follow-up campaign in succeeding months —will make sure everyone knows about this important new product.

and here's extra profit for you!

on every pack sold your profit is 50% on c

And, as a special introduction-only display bonus, for every dozen packs ordered you get two packs *free*—making the equivalent of an **extra 19/-** profit on top of your 50% profit on outlay.

THERE WILL BE UNPARALLELED INTEREST IN
THERE WILL BE UNPARALLELED DEMAND FOR **halaspray**

* Distribution will be by GEIGY PHARMACEUTICAL COMPANY LIMITED, orders through usual channels.

halaspray

MOUTH FRESHENER

Just one puff brings

Instant
clean breath



BOEHRINGER INGELHEIM LIMITED
Proprietaries Division
ISLEWORTH MIDDLESEX

***J & J Colman
announce that from
Monday, 10th August
the prices of
Robinsons Soft Drinks
will be as follows***

		1	2-5	6-11	12-23	24-59	60-119	120-599	600
		dozen	dozen	dozen	dozen	dozen	dozen	dozen	dozen and up
LEMON BARLEY									
ORANGE BARLEY									
LIME BARLEY									
WHOLE GRAPEFRUIT	PER DOZEN	27/2	26/9	26/5½	25/3	24/8	24/5	24/1	23/8
WHOLE LEMON	P.T.	4/1	4/-	3/11½	3/9½	3/9½	3/9½	3/9½	3/9½
TRIO	INCL. PRICE	31/3	30/9	30/5	29/0½	28/5½	28/2½	27/10½	27/5½

MAXIMUM RECOMMENDED CONSUMER PRICE PER BOTTLE 3/3

WHOLE ORANGE	PER DOZEN	25/-	24/9	24/6	23/7	23/4	23/1	22/7	22/4
LEMON SQUASH	P.T.	3/9	3/8½	3/8	3/6½	3/6½	3/6½	3/6½	3/6½
ORANGE SQUASH	INCL. PRICE	28/9	28/5½	28/2	27/1½	26/10½	26/7½	26/1½	25/10½

MAXIMUM RECOMMENDED CONSUMER PRICE PER BOTTLE 3/-

J & J COLMAN LIMITED · CARROW WORKS · NORWICH



The
CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE: CENTRAL 6565

Replenishing the Register

OVER a long enough period the size of the Register of Pharmaceutical Chemists may be expected to adjust itself to the economic law of supply and demand beloved of Mr. Enoch Powell—modified, it may be, by influences of which he admits no effect. Those influences may be too complicated and subtle to be fully understood or controlled by anybody. Most pharmacists will feel, however, that they must take a hand in their own destiny. At least their own positive acts may make them better off than they would remain under passive exposure to the acts of others, including Governments. One of the ways in which they may control their own numbers is through raising the conditions of entry to the profession. The crude method—alleged to be operated by some professional bodies—of raising or lowering the pass mark in entry examinations—is difficult to operate in any but a much smaller profession than pharmacy, and is in any case, we feel, repugnant to ideals of justice and fair play. Why should a candidate of moderate ability be admitted this year when another of greater talent might, for reasons of greater competition, be rejected next year? Besides being unfair to the talented loser, it means a loss to the profession that rejects him. The broader method of raising educational standards is not only legitimate but advantageous to the welfare of the profession (as, of course, to the community) and that is the method which pharmacy has followed. It has done so, however, on general principles, and not on any study of the actual rate of recruitment necessary to keep up the number of registrations, if only for the reason that the necessary statistical information was not forthcoming. Now, however, the possibility of a constructive policy of control has been made possible by the analysis—the so-called “man-power report”—which pharmacists attending the Conference are being asked to discuss, after introductory papers by opening speakers representing sectional interests within the profession, at Edinburgh in September. The information provided (see p. 120) is quite valuable, and most necessary to be in the hands of anybody engaged in formulating a policy aimed at attracting the right numbers of the right type of entrant into the profession. We still do not think it is enough, unless the sole objective is to maintain the register at a constant size whatever the changing circumstances in the community at large. It throws no light on whether all parts of the country have a proper number of pharmacists to provide an adequate pharmaceutical service for everybody, though some of that information could have been ex-

tracted from the Pharmaceutical Register and more by appropriate questions on the forms sent out to members. Everybody knows that there is a pre-N.H.S. hangover of too many pharmacies in health resorts, for example, and that it is related to the age groupings. It is generally accepted that pharmacies have not quite caught up to the needs in some of the newer concentrations of population. To adjust those anomalies and others might leave the total of pharmacies much the same, but it might call for a quite different total. Nobody really knows. Still less has the situation been studied in relation to the sort of ideal picture of pharmacy's future line of development embodied in the report of the Committee on the General Practice of Pharmacy (*C. & D.*, October 7, 1961, p. 397). Only when those other aspects are also studied can pharmacists really forge an enlightened policy for their future. The September discussions are an important start. Not everything can be done at one go. But let them be recognised as being a jumping-off and not a landing.

Overseas Trade in Pharmaceuticals

UNITED Kingdom exports of medicinal and pharmaceutical products, valued at £4,449,556 in June, were about £78,000 down on the previous June, but the total for the first half of the year is 10 per cent. higher than that for the corresponding half-year of 1963.

Values of the more important items exported and imported during June are given in the accompanying tables. No noteworthy changes occurred in the export

PHARMACEUTICAL PRODUCTS—EXPORTS	
	£
Sera and vaccines	111,393
Vitamins	71,871
Antibiotics	
Penicillin injections	95,989
tablets, ointments, etc.	93,547
other	270,337
Alkaloids	31,878
Aspirin	75,592
Antihistamines	52,370
Antipaludics	73,552
Barbiturates	22,960
Hormones	163,404
Glycosides	3,710
Ointments, liniments*	83,108
Organo therapeutic glands, etc.*	23,799
Sulphonamides	64,162
Proprietary medicines*	1,378,683
Unclassified medicines*	544,643

PHARMACEUTICALS IN BULK—EXPORTS	
Vitamins	154,777
Penicillin	103,814
Antibiotics other than penicillin	181,816
Alkaloids	130,252
Hormones	183,711
Glycosides	6,322
Organo therapeutic glands	16,937
Aspirin	39,280
Barbiturates	31,105
Sulphonamides	122,325
Glycerin	26,861
Citric acid	86,106

PHARMACEUTICAL PRODUCTS—IMPORTS	
Vitamins	58,199
Antibiotics	117,774
Alkaloids	60,408
Glycosides, glands, sera, vaccines	11,619
Proprietary and veterinary medicines	236,929
All other	90,262

*Not elsewhere specified.

pattern as compared with the previous June but imports, at £575,191, were almost doubled. Purchases from the United States cost £139,583; exports were valued at £94,776.

For the first time France topped the list as the largest market for U.K. pharmaceuticals. Her purchases at £298,239 were £16,000 more than Australia's. Next came New Zealand (£229,299), Nigeria (£224,447) and the Irish Republic (£202,731). Shipments to five of the European Free Trade Association countries (including Finland) totalled £431,453, and to the European Economic Community £639,116.

An Eye on the World of Medicine

ON p. 132 we introduce a new feature: "Prescribers' Press" which it is hoped to publish weekly if space

permits. Purpose of the feature is to provide the pharmacist with prompt information about such contributions to the medical Press as are of pharmaceutical interest, particularly if they seem likely to affect the retail pharmacist in his dealings with the general medical practitioner. The intention is by no means to eliminate the need for technical reading on the pharmacist's part: rather the reverse, in fact, since our short notes may well whet the appetite for further knowledge, prompting the reader to go on to examine in detail work that we have only summarised. We do not blind ourselves to the fact, however, that the pharmacist today, particularly if in general practice, has little time to spare for wide reading, and will welcome as valuable any information that assists him in using his available time to the best advantage.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN NO REPRIEVE FOR PRE-GRADUATE TRAINING

Previous decision upheld despite outside protests

ALTHOUGH letters had been received from the National Pharmaceutical Union and the superintendent of a multiple company expressing concern at the Council's decision (*C. & D.*, July 11, p. 38) to abolish pre-graduate practical training and asking for the matter to be reconsidered, the Council of the Pharmaceutical Society, at its meeting on July 28 and 29, endorsed the Education Committee's declaration that no useful purpose would be served by doing so. It was pointed out that the decision on the policy to be followed had been taken by the Council at its July meeting, at which full consideration had been given to all arguments.

The Education Committee considered alterations to paragraph 6 of the examination regulations to make effective the decision to recognise only post-graduate practical training in future. Section XX (4) of the by-laws, which governs the conditions under which practical training must be obtained by graduates in pharmacy, already recognises only post-graduate practical training, and for conformity similar requirements and wording are proposed. The Council agreed to adopt the Committee's recommendations and to submit them to the Privy Council for confirmation.

The minutes of the Education Committee also reported that twenty-five persons had been registered as "student" during July, making 171 for the year, against 270 for the corresponding period of 1963.

It was reported that the meetings to consider applications for research scholarships and educational grants would be held in August, and the president was given authority to accept the recommendations of the adjudicating committees upon the applications received.

The Council accepted the Committee's recommendation to appoint the following persons as chairmen of the respective panels of examiners for 1964-65:—Pharmacognosy, Dr. E. J. Shellard; pharmaceutical chemistry, Dr. L. K. Sharp; pharmaceutics, Mr. C. Gunn (vice-chairman, Dr. E. A. Rawlins); physiology and pharmacology, Mr. F. H. Oliver; pharmaceutics III, Part A (Forensic Pharmacy), Mr. F. R. C. Bateson.

The Benevolent Fund Committee reported that a legacy of £100 had been left to the Birdsgrove House Fund by the late G. Gregory, M.P.S., Bognor Regis.

The Committee had decided to make grants in respect of the special circumstances of two members, an annuitant and the widow of a member. Grants had been made to or were recommended for seven widows of members, two members and in respect of two orphans.

The Organisation Committee, having reviewed the scope of its work, recommended that the terms of reference of the Committee in future should be as follows:—

To deal with matters concerning the constitution and procedure of the Society, such as (1) the formation, powers and duties of committees and of joint committees with other bodies; (2) the coordination of activities; (3) the structure and mode of operation of the branch system, membership groups and other organised activities of the membership; (4) the arrangements for appointing officers, committee members and persons to represent the Society; (5) the arrangements for the award of distinctions; (6) the rights and privileges of students, members, fellows, honorary members and honorary fellows; (7) the management of the branch system.

The Council adopted the recommendation.

It was reported by the Publications Committee that the new edition of the Poisons and T.S.A. Guide had been scheduled for publication on August 7.

Advertising

The Ethical Committee reported that it had considered a number of cases of infringement of the Society's advertising standards. In one case the advertisement consisted of a whole-page description of a new departmental store, with a brief reference to the dispensing services provided by the pharmacy department. In another case an advertisement by a body corporate was included on the room-cards issued to guests at a hotel. It contained a reference to the dispensing of medicines. The third case referred to an advertisement by a pharmacist in a local guide; it included a reference to the prescription department and stated that "prescriptions are all dispensed by fully qualified chemists." Letters of explanation in those cases had been accepted by the Committee.

Objection had been taken to an article with photographs which had appeared in a local paper and which had described in detail the refitting of a pharmacy, making several references to the pharmacist who was the principal of the firm. The views of the Council had been conveyed to the pharmacist, who had stated that he saw no objection to that kind of "inspired" journalism. It was decided to send a further letter to the pharmacist confirming the Council's views.

The Committee considered a case in which a card announcing the opening of a new pharmacy had been distributed to houses in the area. In the Committee's view that action constituted canvassing by the pharmacist concerned and was in contravention of Clause 21 of the Statement upon Matters of Professional Conduct. It was decided to communicate again with the pharmacist director of the firm reiterating the Council's views on canvassing. A further case in which handbills had been distributed was also considered by the Committee.

Following the statement, made by the Council at its

July meeting (see *C. & D.*, July 4, p. 10), the Committee recommended that a draft statement concerning the offers of samples of medicines should be prepared for consideration at the next meeting of Council, in order to show that objection was taken not only to sampling schemes promoted by manufacturers, but also to the issue of samples of products prepared by pharmacists themselves.

The Council received the report of a meeting that had taken place on July 7 between representatives of the British Medical Association, Association of the British Pharmaceutical Industry, National Pharmaceutical Union and Pharmaceutical Society, at which the question of the supply of oral contraceptives by medical practitioners to members of the public had been discussed and a useful exchange of views had taken place. The Practice Committee would deal with any development in that matter.

The Ethical Committee discussed the ethics of pharmacists assisting in the advertising of medicinal and non-medicinal preparations by means of competitions, and it was decided to prepare a statement on the subject for consideration at the next meeting of the Committee.

The Committee considered the policy to be adopted towards manufacturers who incorporated the names of pharmacists or pharmaceutical firms in advertisements to the public. It was recommended that objection should be taken to the inclusion of the name of a particular supplier or a limited list of suppliers in advertisements of medicinal products, on the ground that such action drew an invidious distinction between pharmacists, unless the product was one that was distributed on an agency basis.

Legal Matters

During June inspectors and agents of the Society had visited the premises of 653 authorised sellers and 408 traders. Authority was sought to institute proceedings against five authorised sellers and five traders in respect of alleged infringements of the Pharmacy and Poisons Act, 1933. It was recommended that warning letters be sent to one authorised seller and nine traders.

The Law Committee had been asked to consider the situation which arose when, following legal proceedings under the Pharmacy Acts, another authority, such as a Local Executive Council, took action against the pharmacist or firm concerned, based on the same facts. It was recommended that the Society, having a specific duty of enforcement, could not pay regard to any possible action that might be taken subsequently by another authority.

It was decided to hold a special meeting of the Council on September 17 (during the Edinburgh meeting of the British Pharmaceutical Conference) in order to confirm the by-laws relating to fees.

ECHOES OF THE PAST FUMES TAKEN IN A WEFT

From "*The History of Life and Death*," by Francis Bacon, Lord Verulam, Viscount St. Albans, London, 1676.

OPIATES also may be taken, not only by the mouth, but also by *Fumes*; but the *Fumes* must be such as may not move the expulsive Faculty too strongly, nor force down humours, but only taken in a Weft, may work upon the Spirits within the brain. And therefore a *Suffumigation* of *Tobacco*, *Lignum-Aloes*, *Rosemary-leaves* dried, and a little *Myrrhe* snuffed up in the morning at the Mouth and Nostrils, would be very good.

In *Grand Opiates*, such as are *Treacle*, *Methridate*, and the rest, it would not be amiss (especially in youth) to take rather the distilled Waters of them, than themselves in their bodies; for the vapour in distilling doth rise, but the heat of the Medicine commonly setteth. Now *distilled Waters* are good in those vertues which are conveyed by Vapours, in other things but weak.

There are Medicines which have a certain weak and hidden degree, and therefore safe to an *Opiate* Vertue: These send forth a slow and copious Vapour, but not malignant, as *Opiates* do; therefore they put not the Spirits to flight, notwithstanding they congregate them, and somewhat thicken them.

Onward from Galen

★ THREEFOLD CELEBRATION ★

EXAMPLES of past and present pharmacy were to be seen side by side at the Vale of Bardsley, Lancs. on July 21 and 22, when Thomas Kerfoot & Co., Ltd., arranged garden parties with the threefold object of welcoming the British Medical Association Conference to Manchester and celebrating the centenaries of the British Pharmacopœia and of the business *début* of Mr. Thomas Kerfoot himself. Items from treasured collections were contributed by Miss Lothian (librarian of the Pharmaceutical Society); Mr. G. A. Hutton, Bentley, Yorks; Mr. J. A. Skinner, Chatteris, Cambs; and Mr. C. M. O. Watson, Leeds. Mr. Hayhurst, Burnley, Lancs, supplemented a selection from the Kerfoot library with a number of rare volumes and manuscripts. By way of contrast, the latest developments in tablet production, analytical procedures and accounting methods were open for inspection. The band of the King's Own Border Regiment was in attendance during afternoon tea, which was served on one of the lawns.

NEW BOOKS

British Instruments Directory and Buyers Guide

Scientific Instrument Makers' Association and United Science Press, Ltd., 9 Gough Square, London, E.C.4. 11 × 9 in. Pp. 497 + lxxxiv. Fourth edition. 70s.

THE size of the latest (fourth) edition of this Directory reflects the growth of the industry. New heads for instruments and components number 150, bringing the list of classified headings to over 2,500. All major instruments and components are covered, and the glossary of terms in five languages, included as an aid to greater export efforts, now contains an Italian-English section.

Gehes Codex, Nachtrags-und Ergänzungsband, 1964

Wissenschaftliche Verlagsgesellschaft, m.b.H., Stuttgart, and Schwarzeck Verlag G.m.b.H., Munich, Germany. 9½ × 6 in. Pp. iv + 598. 136s.

THE 1964 supplement includes those new German preparations introduced since Gehes Codex, 1960, was published. The pharmaceutical specialities listed in the supplement indicate the nature of the constituent drugs, forms of presentation, indications and names and addresses of makers. An appendix gives a list of recommended or proposed international non-proprietary names together with their chemical name or description.

Buyer's Market

LEONARD M. HARRIS in collaboration with MASS OBSERVATION, LTD. *Business Publications, Ltd.*, 103 Waterloo Road, London, S.E.1. 8½ × 5½ in. Pp. 157. 35s.

MUCH of the text of the book is concerned with department stores and supermarkets and with the public's reaction to shopping in those businesses. The author believes in the lasting value of the supermarkets, yet is sure they are not the final answer. In fact, he writes, there is a "tremendous area of development and a profit for those who, by new thinking and original method, can offer to a weary public the sort of shopping conditions that would both charm them and enrich their lives." The author believes the retailers have been obsessed with the idea of having to "sell down to a price," that they have often closed the door to the best type of salesman. Recognising that basic rates of pay in the better end of retail trade are at present inadequate, he believes strongly in the commission system of payment which, "with all its faults, remains a most valuable stimulant as well as forming the most immediate recognition of sales ability." On top of that system there should be some form of profit sharing, so that the worker can think of the welfare of the business as a whole.

ANXIOUS TO HELP: "I am very anxious that everything possible should be done to help general practitioners to maintain the highest standard of service to their patients." —Mr. Anthony Barber (Minister of Health) on July 31.

From APOTHECARY to PHARMACIST : A Study of changes of title

T. D. WHITTET, B.Sc., Ph.D., F.P.S., F.R.I.C.

TITLES USED IN ENGLAND AND WALES. 4. PRESENT POSITION OF THE APOTHECARIES

THE Apothecaries' Hall in Black Friars Lane, built on the site of the monastery of that name, was acquired by the Society of Apothecaries in 1632. Destroyed in the Great Fire of 1666, and rebuilt on the same site in 1668-70, it is one of the finest surviving London Livery Halls, and one of the few to escape serious damage in the Second World War. Close by is Apothecary Street.

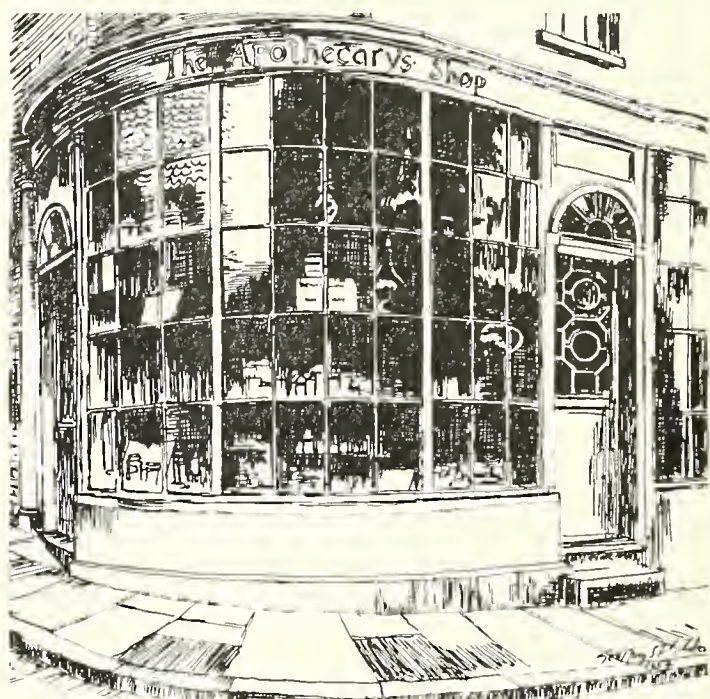
The Society of Apothecaries founded the Chelsea Physic Garden in 1686, and that still exists, though control of it has passed to a committee on which the Society of Apothecaries, Pharmaceutical Society, Royal Society and the Royal College of Physicians are represented. Both manufacturing and retail pharmacy were carried out at the Hall for many years, and it was not until 1923 that those activities finally ceased and the Society became a purely professional medical body, offering a registrable medical qualification: Licentiatehip in Medicine and Surgery of the Society of Apothecaries (L.M.S.S.A.) and post-graduate diplomas in midwifery, industrial health and medical jurisprudence.

Now the only connections of the Society with pharmacy are the annual award of the Galen gold medal in therapeutics, the foundation of a Faculty of the History of Medicine and Pharmacy, and the granting of a certificate for assistants-in-dispensing. Holders of that certificate formerly acted as dispensers in the dispensing medical practices which resulted from the transference of the apothecaries from pharmacy to medicine. Now they are employed as technicians under the supervision of pharmacists, mainly in hospitals, but to an increasing extent in the general practice of pharmacy. The Yeomanry and Livery of the Society of Apothecaries were, from 1815 until about 1950, open only to registered medical practitioners, but now several members of closely allied professions such as pharmacy, pharmacology, dentistry, biochemistry and medical chemistry have been admitted. The non-medical membership is limited to 10 per cent. of the total.

Thus in England today the apothecary is legally a medical practitioner, and the term APOTHECARY'S SHOP has almost disappeared from use. A firm called the General Apothecaries' Co. had a branch in Berners Street, London, W.1, but that was closed on the outbreak of the 1939 war. The company continued as a wholesale firm until 1958, when it went into liquidation. There is still a pharmacy called the Apothecary's Shop in the ancient cinque port town of Rye, Sussex, and one called the Apothecaries' Shop at Kidderminster, Worcestershire.

In the ancient City of Chester there is a Guild of Mercers, Ironmongers, Grocers and Apothecaries, to which admission is now only by patrimony with, until recently, no member from any of those occupations. In 1959, however, Dr. W. S. C. Copeman, then Master of the London Society of Apothecaries, and the writer, were elected honorary members.

The Polish word APTEKA has been registered as the trade name of a pharmaceutical firm which has a pharmacy in



The "Apothecary's shop" at Rye, Sussex.

Chelsea, London. The words PEPPER, CULPEPPER, SPICER and POTHECARY still exist as surnames in England. Trease (1957) has stated that the surname PEVERIL is a name of Mediterranean origin meaning "little pepperer." Many towns still have streets called Pepper Street and Spicer Street and some of which are known to be in the areas formerly associated with these occupations. Charles Pothe-cary was included in the list of London Apothecaries (1815-52) having qualified on October 9, 1834. The title apothecary is still used for the person in charge of the sick in some monastic institutions.

The Apothecaries' system of weights and measures has been in use in Great Britain for several centuries, and is still used for some doses in the British Pharmacopœia, British Pharmaceutical Codex and British National Formulary. In those publications it is being replaced entirely by the metric system from the 1963 editions and the Weights and Measures Bill contains a clause allowing for the complete abolition of the Apothecaries' system within five years of notice being given.

There is still a post of "Apothecary to the Royal Household," and posts as Surgeon-Apothecary to the Royal Household at Windsor and Sandringham. They are in unbroken succession from the mediaeval Royal Spicers and Apothecaries but now, of course, are medical appointments. A relic of the spicer is found in the name specie jar used for the large ornate containers formerly popular in pharmacies.

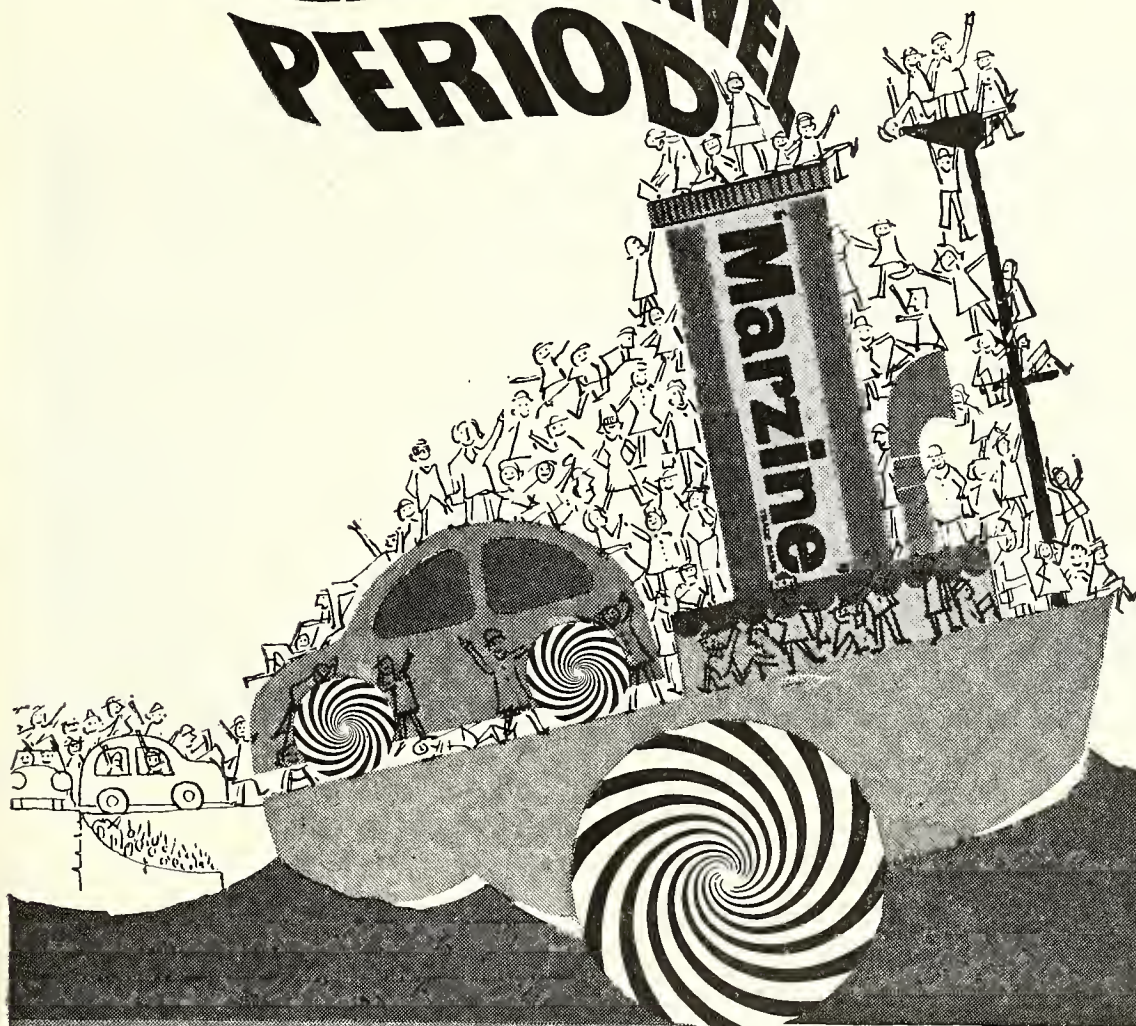
This Indenture Witnesseth That Thomas Brown Baker the Son of John Baker of the parish of Rye in the County of Sussex an Apprentice of Laurence in the Maistries Dock Yard there of his own free will and with the consent and approbation of his said father testifies in their severally being parties to and executing these presents doth put himself Apprentice to John Parkinson of Rye in the Parish of Rye in the County of Southampton Surgeon and Apothecary Chemist and Druggist to learn his Art and with him after the Manner of an Apprentice to serve from the Tenth day of September One Thousand eight Hundred and Thirty Nine being the day of the date of these Presents

Indenture dated 1839 of a "Surgeon and Apothecary Chemist and Druggist."

'Marzine'

TRADE MARK

PEAK TRAVEL PERIOD



SUMMER BONUS ENDS AUGUST 31st

There's still time to obtain 'Marzine' on Summer Bonus terms of

**13 TO THE DOZEN ON ALL ORDERS
OF 3 DOZEN TUBES OR OVER***

Many weeks more of the holiday travel season remain and 'Marzine' advertising continues. Make sure your stocks are adequate.

*Orders for 6 dozen or more tubes are sent carriage paid.

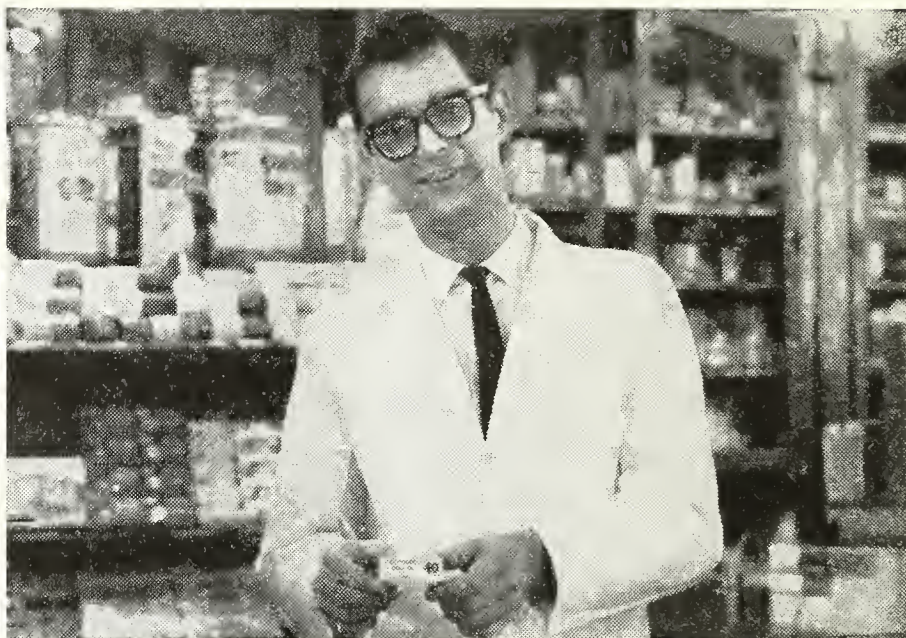
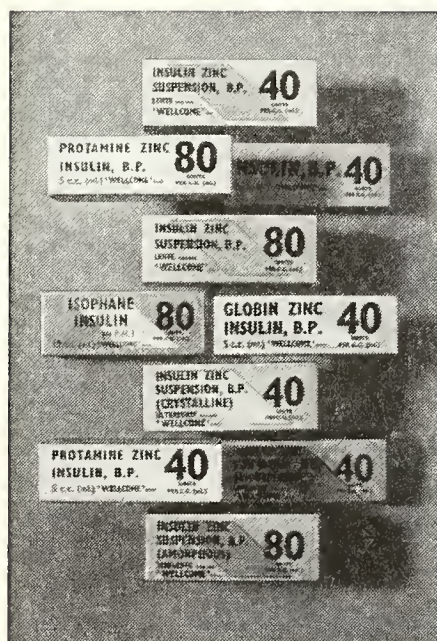


As travel reaches its seasonal peak, 'MARZINE' is being heavily advertised. Millions of holidaymakers are continuously reminded that 'Marzine' will remove all their worries about travel sickness. You can have confidence in 'Marzine' because it is the proved travel sickness remedy which is particularly suitable for young children.



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

SERVING THE DIABETIC



When you supply 'Wellcome' Insulins,
you give the best possible service.

B. W. & Co. developed and were the first company to use crystalline insulin in manufacture. Into every batch of 'Wellcome' Insulin goes an experience stretching back to the earliest days of insulin treatment.

Lente, P.Z.I., Globin, Isophane and Unmodified Insulins—all are in the 'Wellcome' range.

'WELLCOME' BRAND INSULINS



BURROUGHS WELLCOME & CO., LONDON
(The Wellcome Foundation Ltd.)

WEIGHTS AND MEASURES

Quantity marking regulations for specified goods

THE Weights and Measures (Marking) Regulations, 1964 (H.M. Stationery Office, price fivepence), prescribe the manner in which indications of quantity are to be marked on containers of a variety of goods.

The goods are those referred to in Schedules 4, 6, 7 or 8 of the Weights and Measures Act and include honey, diabetic jam, fruit preservative tablets, rennet tablets, saccharin tablets, soft drink tablets, sweetening tablets, vanilla pods, microbiological preparations for addition to food, soft drinks in syphons, or in quantities of less than 5 fl. oz., fertilisers, perfumes and toilet waters; other toilet preparations for use on the hair or scalp of human beings; other toilet preparations for external use on any other part of the human body; dentifrices; soap, anti-freeze, linseed oil, wood preservative fluid, liquid detergents, paint removers and rust removers.

“Conspicuous and Intelligible”

The regulations aim to ensure that the compulsory quantity markings are clear, conspicuous and intelligible to intending purchasers. The quantity must be marked in a prominent position on the container where it can be easily read “and it shall not be obscured by any stamp, sticker, outer wrapper or in any other way.” It may be marked on the base of the container “only if there is no wording visible elsewhere on or through the outside of the container.” When the indication of quantity is not written on the container or on a label securely attached to the container it must be so placed that it cannot be removed without opening some part of the container. “The indication of quantity shall be clear, legible and conspicuous.” The minimum size of the characters is prescribed in a schedule to the Regulations. See table.

to indicate quantity whether or not the characters contrast with the background. For that provision any wording on stoppers, lids or closures not exceeding two inches in length, breadth or diameter is not taken into account.

There is a proviso that before July 31, 1967, embossed characters may be used whether or not the container bears wording in a contrasting colour to the background.

Gross and Net

An indication of gross weight must include the words “gross,” “gross weight,” “including container,” or some other expression having the same effect. The words net or gross must not be abbreviated.

Quantities must be given in imperial units or imperial and metric units, but containers of toilet preparations or perfumery may be marked in metric units only. That exemption does not apply to soap. When imperial and metric units are used the two terms must be placed “in close proximity” but “shall be distinct from” each other.

No quantity in excess of 1 pound can be expressed wholly in terms of ounces. Quantities in excess of 1 ounce cannot be expressed wholly in terms of drams, nor can quantities in excess of 1 quart be expressed wholly in terms of fluid ounces.

The regulations will come into force on July 31, 1965, subject to one year’s deferment for goods which had previously left the hands of the packers. The Board of Trade point out that the deferment does not exempt the goods from complying with the requirement in the Weights and Measures Act, 1963, that they must somehow bear a quantity marking.

Pending further discussions with the industry the requirement about size of lettering and prohibition of mark-

Regulations, 1964 (H.M. Stationery Office, price threepence) effective July 31, 1965, prescribe the abbreviations of units of measurement that may be used in connection with the Weights and Measures Act, 1963. In so far as they also relate to food the regulations replace the corresponding provisions of the Pre-packed Food (Weights and Measures: Marking) Regulations, 1957, which lapse on July 31, 1965. The measurements and the abbreviations listed in the schedule to the Regulations are as follows:—

Unit of measurement	Abbreviation
yard	yd.
foot	ft.
inch	in.
cubic inch	cu. in. or cub. in.
gallon	gal. or gall.
quart	qt.
pint	pt.
fluid ounce	fl. oz.
hundredweight	cwt.
quarter	qr.
pound	lb.
ounce	oz.
dram	dr.
grain	gr.
metre	m.
decimetre	dm.
centimetre	cm.
millimetre	mm.
cubic centimetre	c.c. or cu. cm.
litre	l. or lit.
decilitre	dl.
centilitre	cl.
millilitre	ml.
kilogramme	kg. or kilo or kilogram or kilogram
gramme	g. or grm. or gram
milligramme	mg. or milligram

The Schedule states that the letter “s” may (but need not) be added to an abbreviation to denote the plural.

MANUFACTURERS’ ACTIVITIES



LONG-SERVICE AWARD: One of four members of the staff of Thomas Morson & Son, Ltd. (subsidiary of Merck Sharp & Dohme, Ltd.) being presented with a long-service award by Mr. John T. Connor (president, Merck & Co., Inc., Rahway, New Jersey) while visiting the company’s works at Hoddesdon and Enfield. Mr. Connor was recently named “New Jersey Business Statesman of the Year” and has lately also received honorary degrees in Science and Laws from the University of Pennsylvania and from Rutgers University.

Presentation Dinner.—A presentation dinner was given in London, recently,

MINIMUM SIZE OF CHARACTERS CONSTITUTING THE INDICATION OF QUANTITY

GREATEST DIMENSION OF CONTAINER	MINIMUM HEIGHT OF CHARACTERS
Not exceeding 2 in.	$\frac{1}{16}$ in.
Exceeding 2 in. but not exceeding 12 in.	$\frac{3}{32}$ in.
Exceeding 12 in. but not exceeding 18 in.	$\frac{5}{32}$ in.
Exceeding 18 in. but not exceeding 24 in.	$\frac{5}{16}$ in.
Exceeding 24 in.	$\frac{1}{2}$ in.

Where the quantity is a fraction the whole fraction is taken to be the character, not the individual figures. The regulations state “Fractions shall be distinct from any whole number with which they are associated and if expressed in figures shall not be written thus: 1-2.” Quantities must be “on a plain background and in a colour which is distinct and conspicuous contrast thereto.”

Where a transparent container is used the contents are deemed to be the background for that provision.

Where a container bears no wording in a contrasting colour the regulations allow the use of embossed characters

ing on the base of containers will not be applied to food and drink. Those goods are expected to be the subject of early discussion between the industry and the Ministry of Agriculture, Fisheries and Food on revised requirements affecting labelling under the Food and Drugs Act.

In so far as they relate to food the regulations replace the corresponding provisions of the Pre-packed Food (Weights and Measures Marking) Regulations, 1957.

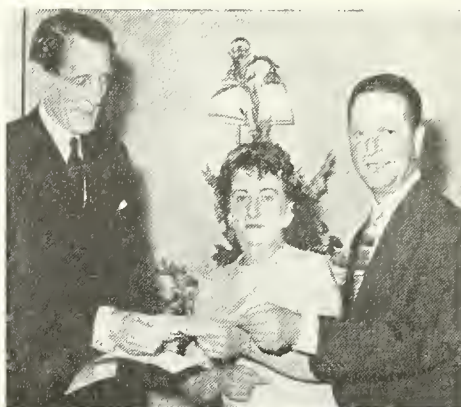
Abbreviations

The Weights and Measures (Abbreviations of Units of Measurement)

to honour Mr. A. J. McIntyre on the occasion of his retirement from W. J. Bush & Co., Ltd., after a long and distinguished career rising to managing directorship of both Bush and Potter & Moore, Ltd. Sir Sydney Barratt (chairman, Albright & Wilson, Ltd., of which group Messrs. Bush are a member company) and other directors of companies within the group were among those present with their wives. In his presentation speech, Mr. Eric Bush (chairman, W. J. Bush) referred to Mr. McIntyre's forty-five years' service with the company relating how he became assistant secretary in 1923, company secretary in 1933, a director in 1942, and managing director from 1954 until his retirement in June of this year. On behalf of his co-directors Mr. Bush presented Mr. McIntyre with an original painting of a Venetian scene. A few days earlier the staff of Messrs. Bush had presented Mr. McIntyre with a cheque which he said would be used to purchase a refectory table.

"Miss Britain," 1964.—Finals of the "Miss Britain" contest organised by the Mecca organisation and sponsored by Chesebrough-Pond's, Ltd., Victoria

Road, London, N.W.10, for their Spray 'n Stay and Angel Face cosmetics, were held recently in Birmingham. Winner was Miss Tracy Ingram, London, who received £150 and will travel, all expenses paid, to Long Beach, California, in August for the International Beauty Congress.



PRIZE PRESENTED: Mrs. M. Roberts receives cheque as first prize-winner in Optrex contest for assistants (see C. & D., August 1, p. 104) from Mr. H. M. Seward in the presence of her employer, Mr. J. Stonefield, M.P.S., Leeds.

Prescribers' Press

What doctors are reading about developments in drugs and treatments

IN an annotation on the quality control of drugs, the *Lancet* supports the recently published recommendations of the Pharmaceutical Society (see C. & D., July 25, p. 76), but it considers that the Society's concern with the interests of retail pharmacists and pharmaceutical manufacturers could seriously inhibit any drug-testing organisation that the Society might run (*Lancet*, August 1, p. 244).

Workers at the Southern General Hospital, Glasgow, report on the use of intravenous sodium bicarbonate to raise blood pH to 7.2 before starting treatment for diabetic acidosis. The procedure necessitated a lower dose of insulin, and recovery was quicker than would have been the case without the use of bicarbonate (*Lancet*, August 1, p. 223).

The effect of ethylchlorophenoxyisobutyrate (as Atromid with and as Atromid-S without androsterone) on platelet stickiness — a phenomenon which is increased in ischaemic heart disease — has been examined at the Royal Free Hospital, London. Both preparations were found (by comparison with a placebo) to reduce the platelet stickiness and to lower blood cholesterol levels (*Lancet*, August 1, p. 233).

Results of clinical trials of oil-adjuvant influenza vaccines, carried out in the winters of 1960-63, are published in a report to the Medical Research Council by its Committee on Influenza and other Respiratory Virus Vaccines. The monovalent vaccines used were of low

viscosity, being an attempt to overcome foreign-body reactions and subsequent necrosis associated with earlier oil-adjuvant vaccines. No troublesome immediate reactions were reported in the current trial—which involved 6,123 subjects—and "statistically significant evidence" of protection against influenza A2 and influenza B was found. (*B.M.J.*, August 1, p. 267.)

An investigation of salicylate (aspirin) elimination rate in healthy adults showed an appreciable variation in the rate between subjects. That leads the American workers concerned to recommend that the dosage schedule in intensive salicylate therapy should be adjusted individually to prevent drug accumulation or decline of drug concentration to subtherapeutic levels. (*B.M.J.*, August 1, p. 286.)

In a series of trials with quinethazone (Aquamox), Dr. G. Sandler (Sheffield Royal Infirmary) found that a single 200-mgm. dose was an effective diuretic in normal subjects and had an action on sodium excretion in the urine which exceeded that of 1 gm. of chlorothiazide. When the dose was given together with 500 mgm. of acetazolamide the effects of the drugs were additive but potassium excretion also increased. The effectiveness of a single dose was confirmed in patients with congestive cardiac failure, and the prolonged daily use of 200 mgm. of quinethazone was found as effective as chlorothiazide in the clinical control of that condition. Potential hazards of acetazolamide, limiting the use of the

combination, are pointed out. (*B.M.J.*, August 1, p. 288.)

In a letter to the *British Medical Journal* a doctor suggests a method of eliminating the "cheap self-medication" and "shopping list" type of patient who calls at the surgery for repeat prescriptions. The writer would raise the prescription charge to 5s. and introduce tear-off sections to prescription forms which could be retained by the chemist while the patient kept the remainder of the form for further use.

A double-blind trial to assess the relative efficacy of Quinoderm and Quinoderm hydrocortisone creams is reported by Dr. P. J. C. Ashurst (Manchester and Salford Hospital for Skin Diseases). Papular lesions responded well to both creams but the response in cases with pustular and cystic lesions was less significant and more variable. (*Practitioner*, August.)

Satisfactory results from the use of a siliconised titanium preparation (Metamium) in the treatment of nappin eruptions and sore buttocks of infants are reported. (*Practitioner*, August.)

From the results of a general practitioner clinical trial it was considered that carisoprodol (Carisoma) had not been shown to be any better than aspirin as an analgesic. There was, however, a better response to carisoprodol in patients with traumatic pain and headache but the incidence of side-effects (vertigo, drowsiness) was higher with that drug. (*Practitioner*, August.)

Abstracts

ASPIRIN AND PHENYLBUTAZONE COMPARED: The acute manifestations of rheumatic fever are more rapidly and effectively controlled by phenylbutazone than by adequate doses of aspirin is the conclusion drawn by Drs. G. Will and W. R. Murdoch, from the results of a trial carried out, using eighty-eight patients (*Brit. med. J.*, 1964, II, 281). As far as possible alternate patients were treated with each drug, forty-one receiving aspirin and forty-seven phenylbutazone. From a consideration of the number of first attacks and early cases in each group, combined with the numbers of patients with established heart lesions, evidence of active carditis, electrocardiograph abnormalities, raised antistreptolysin O titres and skin manifestations, the authors conclude that the two groups were comparable. The manifestations used to judge the effectiveness of the treatment were fever, joint pain, tachycardia and erythrocyte sedimentation rate (E.S.R.). In the phenylbutazone group the E.S.R. had returned to normal in all cases after six weeks while in 22 per cent. of the aspirin-treated patients it was still raised at that time. Because some authorities believe the plasma fibrinogen concentration to be a reliable index of the course of the disease the authors carried out serial fibrinogen estimations in twenty-four patients. That also showed the superiority of phenylbutazone, they state. The authors also remark that in the dosage used, no untoward side-effects were noticed with phenylbutazone. It was found that acute symptoms recurred in seven of the patients on aspirin.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 136.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

DEXTROSTIX reagent strips

MANUFACTURER: Ames Co., Division of Miles Laboratories, Ltd., Stoke Court, Stoke Poges, Slough, Bucks.

DESCRIPTION: A quick, simple, standardised colour test for the approximate estimation of glucose in blood, based on enzymatic action. The strip is of stiff absorbent cellulose, one end being impregnated with a buffered mixture of glucose oxidase, peroxidase and a chromogen system and coated with a semi-permeable membrane.

METHOD OF USE: See manufacturers' literature.

STORAGE: The strips should be kept in their original container and protected from exposure to heat, light and particularly moisture. They should be stored in a cool dry place (not in a refrigerator). Under good conditions a shelf life (unopened) of at least two years may be expected. The desiccant pack should not be removed. The impregnated portion is normally a deep cream colour; any strips in which this has a brownish discoloration should not be used. **HOW SUPPLIED:** In bottle of twenty-five strips.

FIRST ISSUED: July 1964. Available to hospitals only, until September 21.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

SOFRAMYCIN DERMALETS

MANUFACTURER: Roussel Laboratories, Ltd., Columbus House, Wembley Park, Middlesex.

DESCRIPTION: Capsules for dermatological use each containing 750 mgm. of Soframycin (framycetin sulphate).

INDICATIONS: Impetigo, folliculitis, sycosis barbae, furunculosis, otitis externa, perionychia, carrier sites, wounds, ulcers.

METHOD OF USE: The tip of the capsule is cut with a clean pair of scissors and the ointment applied in the usual way. Treatment should be repeated one to three times a day.

HOW SUPPLIED: In pack of twelve capsules.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: July 1964

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

VASOCIDIN eye drops

MANUFACTURER: Smith Miller & Patch, Ltd. **DISTRIBUTOR:** Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1.

DESCRIPTION: A stable aqueous buffered solution containing in each 1 c.c., 2 mgm. of chloramphenicol, 2,500 units of polymyxin B sulphate, 3 mgm. of borax, 15 mgm. of boric acid, 0.2 mgm. of methyl paraben and 0.05 mgm. of propyl paraben.

INDICATIONS: Blepharitis; eye infections such as conjunctivitis.

METHOD OF USE: One or two drops should be instilled into the conjunctival sac every hour until improvement occurs.

HOW SUPPLIED: In 5-c.c. Unidrop vial.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: December 1963.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

VASOCIDIN-D eye drops

MANUFACTURER: Smith Miller & Patch, Ltd. **DISTRIBUTOR:** Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1.

DESCRIPTION: A stable buffered aqueous solution containing in each 1 c.c., 2 mgm. of chloramphenicol, 2,500 units of polymyxin B sulphate, 0.25 mgm. of dexamethasone sodium phosphate, 3 mgm. of borax, 15 mgm. of boric acid, 0.2 mgm. of methyl paraben and 0.05 mgm. of propyl paraben.

INDICATIONS: All eye conditions needing antibiotic and anti-inflammatory treatment especially blepharitis and conjunctivitis when inflammation is considerable.

CONTRAINDICATIONS: Tuberculosis; herpes simplex; varicella; rubella; and ocular fungal infections.

METHOD OF USE: One or two drops should be instilled every hour until the condition responds.

NOTES: Administration should be discontinued if sensitivity develops.

HOW SUPPLIED: In 5-c.c. Unidrop vial. **SUPPLY RESTRICTIONS:** Therapeutic Substances Act. **FIRST ISSUED:** December 1963.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

ANAPREL tablets

MANUFACTURER: Selpharm Laboratories, Ltd., 15 Hanover Square, London, W.1. **DISTRIBUTOR:** Wright, Layman & Umney, Ltd., 42 Southwark Street, London, S.E.1.

DESCRIPTION: Yellow, uncoated tablets, each containing 0.5 mgm. of rescinnamine.

INDICATIONS: Mild and moderate hypertension.

DOSAGE: One tablet should be taken three times a day before meals. The dose may be increased to seven tablets a day in more severe cases.

HOW SUPPLIED: In bottles of fifty and 100.

SUPPLY RESTRICTIONS: P.I, S.4B. **FIRST ISSUED:** November 1963.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

DONNAGEL suspension

MANUFACTURER: A. H. Robins Co., Ltd., Foundry Lane, Horsham, Sussex.

DESCRIPTION: Light green, mint-flavoured suspension. Each 30 mls contains 6 gm. of kaolin; 142.8 mgm. of pectin; 0.1037 mgm. of hyoscyamine sulphate; 0.0194 mgm. of atropine sulphate; and 0.0065 mgm. of hyoscine hydrobromide. Antidiarrhoeal.

INDICATIONS: Specific and non-specific diarrhoeas; gastritis; enteritis; duodenitis; colitis, general gastro-intestinal upsets.

DOSAGE: *Children:* two teaspoonfuls (10 mls) every three hours. For diarrhoeas in *Adults:* two tablespoonfuls (30 mls) every three hours. For other conditions: one tablespoonful every three hours as necessary. **PRECAUTIONS:** Should be administered with caution to glaucoma patients.

HOW SUPPLIED: In bottle of 6 fl. oz. **SUPPLY RESTRICTIONS:** P.I. Recommended on prescription only. **FIRST ISSUED:** May 1964.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

LACTIFLORA

MANUFACTURER: Marshall's Pharmaceuticals, Ltd., 17 Henrietta Street, London, W.C.2.

DESCRIPTION: A lyophilisate of *Lactobacillus acidophilus* culture containing in each phial 50 milliards of living bacilli. Solvent supplied separately in 5-ml ampoules.

INDICATIONS: Protection or restoration of the intestinal flora in the course of microbial infections treated with antibiotics.

DOSAGE: Contents of one or two phials to be taken daily between meals or as prescribed. Mix the solvent with the lyophilisate, shake and drink the contents.

HOW SUPPLIED: Box of four single-dose phials with four ampoules of solvent. **FIRST ISSUED:** November 1963.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

PONDERAX tablets

MANUFACTURER: Selpharm Laboratories, Ltd., 15 Hanover Square, London, W.1. **DISTRIBUTOR:** Wright, Layman & Umney, Ltd., 42 Southwark Street, London, S.E.1.

DESCRIPTION: Blue, sugar-coated tablets, each containing 20 mgm. of fenfluramine. **INDICATIONS:** Suppression of appetite.

DOSAGE: The average daily dosage is three tablets but that may be increased to five tablets a day when necessary.

HOW SUPPLIED: In bottles of fifty and 100.

SUPPLY RESTRICTIONS: Recommended on prescription only.

FIRST ISSUED: November 1963.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, August 8, 1964

VASTAREL tablets

MANUFACTURER: Selpharm Laboratories, Ltd., 15 Hanover Square, London, W.1. **DISTRIBUTOR:** Wright, Layman & Umney, Ltd., 42 Southwark Street, London, S.E.1.

DESCRIPTION: White, uncoated tablets, each containing 1 mgm. of trimetazidine (Trimethoxy 2'-3'-4' benzyl piperazine hydrochloride). **INDICATIONS:** Angina; coronaritis.

DOSAGE: The average daily dosage is three tablets but in severe cases that may be increased up to a total of seven tablets.

HOW SUPPLIED: In bottles of fifty and 100.

SUPPLY RESTRICTIONS: Recommended on prescription only.

FIRST ISSUED: November 1963.

TRADE REPORT

The prices given are those obtained by importers, or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 5: In the week, shortened by holidays, business was further affected by the annual shut down of many plants. Price changes, with a few exceptions, were only marginal.

In CRUDE DRUGS Brazilian MENTHOL was reduced by threepence per lb. and holders of BELLADONNA HERB dropped their quotations in anticipation of the new crop due in two months' time. Easier also were STYRAX by sixpence per lb., old-crop SENEGA by one shilling, PODOPHYLLUM (*Emodi*) by 5s. per cwt., Costa Rican IPECACUANHA (for shipment) by one shilling per lb. and CHERRY BARK by one penny per lb. Firmer were ERGOT and Cape ALOES.

In ESSENTIAL OILS the easier tone of Ceylon CITRONELLA was maintained, the spot rate falling a further one shilling per lb. LEMONGRASS for shipment was quoted at 11s. 3d. per lb. (down three-halfpence).

As expected MERCURIALS were again marked up as a result of the higher metal values announced last week. The PERCHLORIDE is now 67s. per kilo (against 64s. 3d.) recently and CALOMEL 78s. 6d. (against 75s. 3d.).

Pharmaceutical Chemicals

ALUMINIUM CHLORIDE.—Pure, in 50-kilo kegs, 6s. 1d. per kilo.

CHARCOAL. — Medicinal activated, B.P.C. in 1-cwt. lots, £22 10s. per cwt.

CHLOROPHYLL. — Water-soluble, 100 per cent. (medicinal grade), 280s. per lb.; oil soluble, 25s. per lb.

CITRIC ACID.—Domestic powder in kegs, per cwt. 1-4 cwt. lots, 224s.; 5-19 cwt., 223s.; 1 ton, 222s. Crystals plus 10s. cwt. ANHYDROUS powder and granular plus 10 per cent. All less 7s. cwt. if in bags.

CREAM OF TARTAR.—Home-trade:—One-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4-cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.)

GLYCERIN.—Chemically pure B.P.:—

	Over 25 tons	5 tons and under 25 tons	1 ton and under 5 tons	Under 1 ton
	s. d.	s. d.	s. d.	s. d.
TANK WAGONS				
10-14 tons	176 0	—	—	—
5-10 tons	177 6	179 6	—	—
DRUMS				
5 cwt.	180 0	182 0	185 0	191 0
2½ cwt.	182 6	184 6	187 6	193 6
TINS				
56 lb.	184 0	186 0	189 0	195 0
28 lb.	205 0	207 0	212 0	220 6
14 lb.	211 0	213 0	218 0	226 6

Minimum delivery 1-cwt. Drums charged and returnable. Minimum terms for technical grade glycerin s.g. 1.2627 are 171s. per cwt. for lots of over 25 tons in bulk deliveries of 10-14 tons.

IODIDES. — (Per kilo). POTASSIUM, 50-kilo lots, 21s. 6d.; SODIUM, 28s. 6d. for 25-kilo lots, AMMONIUM, 46s. 6d.

IODINE.—Resublimed in less than 50-kilo lots, 30s. 6d. per kilo; 50 kilos and over, 29s. 9d. Minimum delivered rates for CRUDE is 18s. 7d. per kilo.

IODOFORM.—Powder (per kilo), 55s. 3d. in 50-kilo lots; less than 50-kilos, 56s. 9d. Crystals are 6s. 6d. per kilo more.

MERCURY DERIVATIVES.—Rates (per kilo) for under 50-kilo lots—AMMONIATED MERCURY, B.P., powder, 81s.; PERCHLORIDE, B.P.C., powder, 67s.; SUBCHLORIDE (calomel), B.P.C., 78s. 6d.; OXIDES, yellow, B.P.C., 81s.; red B.P.C., 1949, 83s.; IODIDES, B.P.C., 1954 (25-kilo lots), 67s. per kilo.

SODIUM ACETATE.—B.P.C. 1949, 50-kilos, 4s. 0½d. per kilo.

SODIUM BENZOATE. — One-ton lots, 2s. 7½d. per lb.; 1-cwt., 2s. 9½d.

SODIUM BICARBONATE.—B.P., 1-cwt. bags £19 3s. per ton for 8-ton lots.

SODIUM BROMATE.—50-kilo lots, 8s. 10d. per kilo, 1,000 kilos, 8s. 3d. per kilo.

SODIUM CARBONATE.—(Per cwt.), B.P.C. exsiccated, 1-cwt., 90s.; 5-cwt., 85s.; 1-ton, 80s.

SODIUM CHLORIDE. — Vacuum dried, 172s. 9d. per ton in paper sacks for 6-ton lots, delivered London.

SODIUM CYCLAMATE. — Fifty-kilo lots offered at 13s. 6d. per kilo in free packages, delivered.

SODIUM FLUORIDE. — B.P.C., 1934, 50-kilo kegs, 8s. 7d. per kilo.

SODIUM HYDROXIDE. — FLAKE, £36 15s. per ton in 8-ton lots, STICKS, B.P., 10s. 10d. kilo in 5-kilo tin.

SODIUM METABISULPHITE. — B.P., £48 17s. 6d. per ton. Commercial grade less 10s. per ton.

SODIUM NITRITE. — B.P.C. 50-kilo kegs, 5s. 8d. per kilo.

SODIUM PANTOTHENATE.—Per kilo, 115s.

SODIUM PERBORATE.—(Per ton). TETRAHYDRATE (minimum 10 per cent. available oxygen) £142 5s. in 1-cwt. kegs; £134 15s. in 1-cwt. bags; PERBORATE MONOHYDRATE (minimum 15 per cent. available oxygen) is £309 15s.

SODIUM PERCARBONATE. — (Per ton) £173 15s. in kegs (bags £7 10s. per ton lower) for minimum 12½ per cent. available oxygen.

SODIUM PHOSPHATE. — B.P. crystals, 4s. 11d. per kilo; POWDER, 6s. 1d.

SODIUM SALICYLATE. — One-ton lots in bulk, 3s. 9d. per lb.; 5-cwt., 3s. 10d.; 1-cwt., 4s.

SODIUM SULPHATE. — B.P. from £30 to £35 per ton as to crystal. B.P. exsiccated about £66 per ton.

SODIUM SULPHITE. — Four-ton lots: Commercial crystals, £27 to £28 10s. as to container; photo. quality, about £31 per ton.

SODIUM THIOSULPHATE. — Photographic crystals in paper-lined bags, £38 per ton.

Crude Drugs

ALOES. — Primes, 255s. per cwt. spot. Shipment, 250s., c.i.f. nominal. Curaçao, spot, 270s.

BELLADONNA.—HERB, 3s. per lb. ROOT, 1s. 8d. per lb.

CHERRY BARK. — Thin natural, 1s. 9d. per lb.; shipment, 1s. 7½d., c.i.f.

COCHINEAL. — Canary Isles silver-grey 22s. 6d. per lb., black-brilliant, 30s., both on the spot. Peruvian, 16s. per lb., spot.

ELEMI.—Spot, 1s. 11d. per lb.; shipment: new crop, September–October, 1s. 6d., c.i.f.

ERGOT. — Portuguese, 8s. 9d. per lb. spot; shipment, 8s. 6d., c.i.f.

IPECACUANHA.—Matto Grosso for shipment, 60s. per lb., c.i.f. and spot from 64s. to 66s., as to test. Colombian 66s., c.i.f.; spot, 67s. Costa Rican, 91s., c.i.f. and 95s., spot.

MENTHOL.—Chinese: spot, 26s. 6d. per lb., duty paid; shipment, 25s., c.i.f.; Brazilian, 21s. in bond and shipment, 21s. 3d., c.i.f.

MERCURY.—Spot, ex warehouse £100 per flask of 76 lb.

PEPPER.—White Sarawak spot is 2s. 9d. to 2s. 10½d. per lb.; shipment, 2s. 8½d., c.i.f. Black Sarawak spot, 2s. 5d., shipment, 2s. 3d., c.i.f. Black Malabar is 340s., per cwt., spot nominal; shipment, 325s., c.i.f.

PODOPHYLLUM.—Spot per cwt: *Emodi*, 225s. (210s., c.i.f.); *Peltatum*, 200s.

SEEDS. — (Per cwt.). ANISE.—Spanish, 270s., duty paid. CARAWAY. — Dutch, 145s., duty paid. CELERY. — Indian, 165s., spot; August shipment, 162s. 6d., c.i.f. CORIANDER.—Moroccan, new crop, 57s. 6d., duty paid; old crop, 55s.; shipment, 44s., c.i.f. CUMIN. — Spot Moroccan, 230s. and Iranian, 240s., both duty paid; shipment, Moroccan, 195s., c.i.f.; Iranian, 210s., c.i.f. DILL. — Indian offering at 90s., spot; shipment quoted at 80s., c.i.f. FENNEL. — Indian nominally 150s., spot; shipment, Chinese, 115s., c.i.f. and Indian 142s. 6d., c.i.f. FENUGREEK. — Moroccan, 48s. 6d., duty paid; shipment steady at 33s. 6d., c.i.f. MUSTARD.—English, 44s. to 65s., according to quality.

SENEGA.—Old crop, 19s. per lb. on the spot. New-crop for shipment, 17s. 6d., c.i.f.

STYRAX. — Spot, 16s. 6d. per lb.; August shipment, 15s., c.i.f.

TURMERIC. — Madras finger offered at 150s. per cwt., spot; shipment, 140s., c.i.f.

Essential and Expressed Oils

BOIS DE ROSE.—Brazilian 18s. 6d. per lb. on the spot; shipment, 17s. 6d., c.i.f.

CEDARWOOD. — Rectified 6s. per lb. on the spot.

CINNAMON.—Best English-distilled, 720s. per lb.; other B.P. oils from 22s. to 120s. per lb. Ceylon leaf, 17s.; Seychelles from 9s. 6d., spot, and 9s., c.i.f., reported.

CITRONELLA. — Ceylon spot, 9s. 6d., shipment, 8s. 9d. per lb., c.i.f. Formosan, 4s. 9d., in bond; shipment, 4s. 7½d., c.i.f.; Chinese, 4s. 9d., in bond, 4s. 6½d., c.i.f.

EUCALYPTUS. — B.P. 70-75 per cent., 5s. 9d. per lb.; 80-85 per cent., 6s. 9d.

GINGER. — Imported (per lb.): Indian, 150s.; Chinese, 75s.; Jamaican, 132s. 6d.

LEMONGRASS. — Spot, 8s. 7½d. per lb.; shipment, 8s. 3d., c.i.f.

OLIVE. — Spanish, £205 to £220 per metric ton f.o.b. Spanish port. Spanish oil spot, £260 to £270 per long ton ex wharf.

PENNYROYAL. — Spot, 12s. 6d. per lb. duty paid.

RUE.—Spanish is 23s. 6d. per lb., spot. SPEARMINT.—American oil on the spot, 26s. per lb.

THYME.—From 17s. 6d. to 20s. per lb. as to test.

TANGERINE.—Sicilian best quality about 37s. per lb.

VETIVER. — Bourbon spot, 85s. to 97s. 6d. per lb.

YLANG YLANG. — Best oil quoted about 135s. per lb.

UNITED STATES REPORT

NEW YORK, AUGUST 4: VITAMIN B₁₂ prices were lowered to make the crystalline \$40 per gm. and the oral grade \$47, each down \$5, in an effort to meet competitive conditions prevailing in the market. Higher per lb. among ESSENTIAL OILS are SPEARMINT at \$3.70, up 25 cents; PATCHOULI at \$3.50, up 25 cents; and Spanish SAGE at \$1.95, up 50 cents.

PRINT AND PUBLICITY

PRESS ADVERTISING

MOORE MEDICINAL PRODUCTS, LTD., Waverley House, Aberdeen; Codella cream, In women's journals and nursing and veterinary journals, mid-August until the end of November.

PiFCO, LTD., PiFCO House, Watling Street, Manchester, 4; PiFCO electric blankets and hair-dryers, In national Press and women's magazines during the autumn, PiFCO vibratory massager, In *Radio Times*.

UNIVERSAL LABORATORIES, LTD., Sandwich, Kent; Trimetts, In women's magazines.



SUMMER PROMOTION: With each purchase of Sunsilk hair spray a full-size bottle of Sunsilk shampoo is being given free. The offer is available to all stockists. Makers are Gibbs Pepsodent, Ltd., Hesketh House, Portman Square, London, W.1.

COMMERCIAL TELEVISION

Figures in these columns represent the number of appearances of the "spot" during the week.

	August 16—22														W. & N. Wales	
	London	Midland	North	Scotland	Wales	South	North-east	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is.		
1001 hand cleaner ...	2	2	2	—	3	2	3	3	2	3	2	—	—	—	—	—
4711 ...	2	2	2	2	2	2	2	2	2	—	—	—	—	—	—	—
Alka-Seltzer ...	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4
Anadin tablets ...	6	7	4	8	4	2	8	4	1	3	3	4	—	2	—	—
Andrew's liver salt ...	3	2	1	3	2	3	2	2	4	3	3	—	3	—	—	—
Askit powders and tablets ...	—	—	—	14	—	—	—	—	—	—	5	3	—	—	—	—
Bathjoys ...	3	2	—	—	3	3	—	1	—	—	—	—	—	—	—	—
Beecham's powders ...	5	4	3	5	4	4	4	4	4	2	1	4	—	2	—	—
Bisodol ...	3	—	3	5	—	—	5	—	—	—	—	—	—	—	—	—
Cuticura preparations ...	2	2	2	4	—	—	—	—	—	—	—	4	—	—	—	—
Dettol ...	—	2	4	2	2	—	—	—	—	1	4	—	—	3	—	—
Dinneford's magnesia ...	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
Eno Fruit Salt ...	3	3	3	3	3	3	—	3	3	—	—	—	—	—	—	—
Eucryl smokers' tooth-powder ...	3	2	3	2	—	2	—	—	—	—	—	—	—	—	—	—
Euthymol tooth-paste ...	1	1	1	1	1	1	1	1	1	1	—	1	—	—	—	—
Floret ...	—	1	1	1	1	1	1	2	2	1	1	—	—	1	—	—
Freezone ...	—	1	—	—	—	—	—	—	—	—	—	2	—	—	—	—
Germolene ...	3	3	2	4	3	3	3	3	3	3	—	4	—	—	—	—
Gillette razor blades ...	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Goya spray set ...	2	2	2	2	2	2	3	4	—	3	1	1	—	—	—	—
Haze ...	2	2	3	3	4	2	2	4	1	3	2	2	—	3	—	—
Ingram shaving cream ...	—	1	—	1	1	—	1	1	—	1	—	—	—	—	—	—
Loxene shampoo ...	—	1	4	—	—	—	6	—	—	—	—	—	2	—	—	—
Matey ...	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—
Milk of Magnesia tablets ...	1	1	1	—	—	—	—	—	—	—	—	1	—	—	—	—
Moorlands indigestion tablets ...	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—
Nair ...	2	1	—	—	3	3	—	—	—	—	—	—	—	3	—	—
Phyllosan ...	3	3	3	—	3	3	2	3	—	—	—	—	—	—	—	—
Rennies ...	3	3	3	3	3	3	3	3	—	3	4	3	—	6	—	—
Rinstead pastilles ...	—	—	—	—	—	2	—	—	—	—	—	—	—	1	—	—
Salvelox ...	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1	—
Sanpic ...	—	—	—	1	—	2	—	2	1	1	1	1	—	—	—	—
Saxin ...	6	7	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Setlers ...	1	1	2	2	—	2	2	2	2	—	—	—	—	—	—	—
Steradent ...	1	1	1	2	2	1	1	1	1	2	1	1	—	1	—	—
Stings ...	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—
Wright's coal tar soap ...	1	2	2	—	1	1	—	2	—	—	—	—	—	—	—	1



CUT-OUT SHOWCARD: Bengne & Co., Ltd., Mount Pleasant, Alport, Wembley, Middlesex, offer the showcard here illustrated to draw attention to their product Metanium ointment for the prevention of nappy rash.

PUBLICATIONS

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

AMES CO., division of Miles Laboratories, Ltd., Stoke Poges, Slough, Bucks: "Dextrostix . . . reagent strips for blood glucose estimation" (4-p. leaflet).

BOOTS PURE DRUG CO., LTD., Nottingham: "Diarrhoea and gastro-intestinal injections yield promptly to Ivax" (4-p. leaflet).

MERCK, SHARP & DOHME, LTD., Hoddesdon, Herts: "Amitriptyline (Tryptizol) . . . in depressive states" (folder), "A more normal life for the hypertensive patient . . . Aldomet" (blotter).

ROUSSEL LABORATORIES, LTD., Columbus House, Wembley Park, Middlesex: "Any advance on tubes? . . . Soframycin Dermalets" (folder).

VITAMINS, LTD., Upper Mall, London, W.6: "Underweight and overweight in children" (4-p. leaflet).

WEST-SILLEN PHARMACEUTICALS, LTD., Hove, Sussex: "Meterdos . . . isoprenaline metered dose aerosol at a more acceptable price" (card).

Price Lists

HANIMEX (U.K.), LTD., 42 Lower Marsh, London, S.E.1: Trade price list of Hanimex photographic equipment.



IN TWENTY-NINE EAST ANGLIAN NEWS-PAPERS: An intensive Press advertising campaign has been in progress throughout East Anglia to introduce Ceefeez effervescent vitamin-C tablets, 75 mgm, (two per tumbler produce a refreshing orange-flavoured drink), first proprietary product to be launched by Inter-Alia Pharmaceutical Services, Ltd., London, and Thetford, Norfolk. The illustration shown, which is one of several used in the advertisements, appears also in supporting show material.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, August 10

FIFTH EUROPEAN INSTITUTE ON THE PREVENTION AND TREATMENT OF ALCOHOLISM, British Medical Association House, Tavistock Square, London, W.C.1. Until August 14.

Wednesday, August 12

MANCHESTER PHARMACEUTICAL GOLEING SOCIETY, Mere golf club, Mere, Knutsford, Ches, Medal competition for Woolley trophy and prize. (Ladies' day.)

Sunday, August 16

SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY, Kingswood golf club, Tadworth, Surrey, at 1 p.m. Stableford and Medal competition.

SOUTH MIDLAND CHEMISTS' GOLFING SOCIETY, Newbury and Crookham golf club, Newbury, Berks, Play for the Tillner cup.

Advance Information

CORROSION AND METAL FINISHING EXHIBITION AND CONFERENCE, Grand Hall, Olympia, London, W.12. December 1-4.

WORLD TRADE

New Chemical Plant for Bahamas.—The Syntex Corporation, manufacturers of pharmaceuticals (particularly in the field of steroid hormones), is to build a chemical plant in Freeport, Bahamas, according to Barclays Bank D.C.O. It is understood that the plant will cost initially between \$1.5 and \$2 millions, and will supplement the company's existing plant in Mexico and increase their total chemical production by about 50 per cent.

Pharmaceutical Plant for Afghanistan.—The Intercontinental Institute, a holding formed by three Italian pharmaceutical enterprises, has agreed with the Afghani Government the installation in Kabul of a pharmaceutical factory, according to a Rome announcement. The plant is to be built in the next few months with Italian technicians, machinery, equipment and raw materials. The preliminary agreement was signed by the Afghani Minister of Health on the occasion of a recent visit in that country by an Italian economic mission, the announcement said. The three Italian enterprises are Societa Irbi of Rome, Societa Farmaceutica Biagini of Pisa and Societa Crosara of Valdagno.

Common Market for Pharmaceuticals in Latin America?—A proposal for establishment of a Latin American common market for pharmaceuticals was one of the subjects to be discussed at a meeting currently held in Washington, D.C. Representatives from Argentina, Brazil, Canada, Chile, Colombia, Mexico, Peru, the United States and Venezuela were expected to attend the meeting. Other major recommendations down for study were (1) Latin American governments should boost their drug production; (2) They should permit drugs to cross borders without being subject to custom duties if they are needed for public health purposes; (3) Regional testing laboratories should be set up to ensure standardisation of drug manufacturing quality throughout Latin America.

NOTES ON NEW MEDICAMENTS

LACTIFLORA.—Lactic-acid-producing organisms are normal inhabitants of the intestines but in cases of gastrointestinal infections the normal bacterial balance of the intestines is disturbed. Further disturbances may follow the use of antibiotics, which are toxic to many non-pathogenic organisms as well as to those causing disease. In order to restore the normal intestinal flora, cultures of *Bacillus acidophilus* are used. Modern products of this type, represented by Lactiflora and Enpac, contain organisms that have become resistant to the antibiotics in common use, and when given in association with antibiotic therapy, aid in the protection or restoration of the usual intestinal flora.

DEXTROSTIX.—Many of the standard methods of estimating the blood sugar levels, such as those of Hagedorn and Jensen and Fulin and Wu, depend essentially on the reduction of potassium ferricyanide to ferrocyanide by the sugar under standard conditions, or the reduction of alkaline copper and sodium phosphomolybdate. More recently a method using glucose-oxidase was devised, and this has since been adapted to form a quick test using a strip of cellulose impregnated with a mixture of glucose-oxidase, peroxidase and a colour-

forming complex. The test strip is coated with a semi-permeable membrane, and in use a large drop of blood is placed on the strip and washed off after one minute. The glucose in the blood is oxidised by the catalytic action of the glucose-oxidase to hydrogen peroxide and gluconic acid; the hydrogen peroxide then reacts in the presence of the peroxidase with the chromogen complex to give a blue colour, the intensity of which is related to the amount of glucose originally present in the blood. The test refers to the "true glucose level," and not to glucose plus other reducing substances, as do the copper reduction methods. The new test has the advantages of rapidity and ease of manipulation. It will be of value in indicating approximate blood-sugar levels whilst awaiting more exact laboratory reports.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," July 15

Uracil derivatives and their manufacture. F. Hoffmann-La Roche & Co., A.G. 967,616.
Method of encapsulating aqueous materials and capsules produced by such method. National Cash Register Co., Ltd. 967,618.
Preparation of photographic silver halide emulsions. Gevaert Photo-Producten, N.V. 967,624.
Thiophosphonic acid derivatives and compositions containing them. Shell Internationale Research Maatschappij, N.V. 967,627.
Process for the fermentative preparation of streptokinase. Behringwerke, A.G. 967,628.
Glass ampoules or similar vessels adapted to be broken open without applying a file, and to a method for processing same. R. Anrep. 967,769.
Fermentative preparation of protease. Shionogi & Co., Ltd. 967,848.
Anorexic compositions comprising -phenylisopropylamine derivatives. Upjohn Co. 967,871.
Production of neomycin. S. B. Penick & Co. 967,873.
Production of organic sulphonic acids. Chemetron Corporation. 967,874.
Chlorine manufacture. Imperial Chemical Industries, Ltd. 967,876.
Process of purifying methanol. Montecatini Societa Generale per l'Industria Mineraria E Chimica. 967,884.
Antibiotics. Boots Pure Drug Co., Ltd. 967,890.
Diaryl-amino-acetyl-aryl derivatives. Francesco Vismara S.p.A. 967,896.
Aryl N-substituted thionocarbamates and processes of manufacturing same. Nippon Soda Kabushiki Kaisha. 967,897.
Zoom lens, more particularly for miniature still cameras. Nippon Kogaku, K. K. 967,977.
Photoconductive and electrophotographic materials. Agfa, A.G. 967,978.
Photographic camera. Agfa, A.F. 968,010.
Volatile anaesthetic vapourising apparatus. Cyprane, Ltd. 968,054.
Process for the preparation of cation-exchange membranes. Imperial Chemical Industries, Ltd. 968,057.
Sulphite esters. United States Rubber Co. 968,058.
Trans-9-oxo-dec-2-enoic acid and its derivatives. National Research Development Corporation. 968,076.
Production of esters. Distillers Co., Ltd. 968,083.
Photographic camera with an automatic exposure value setting device. Agfa, A.G. 968,098.
Scraper device for preparing cinematograph films for splicing. H. Nordhoff & F. Wintzer. 968,099.
Sulphur compounds. Imperial Chemical Industries, Ltd. 968,121.
Apparatus and method for slitting and splicing film. Eastman Kodak Co. 968,123.
Manufacture of neutral chalk. Leo-Werke, G.m.b.H. 968,127.
Aseptic canning. Reddi-Wip, Inc. 968,147.
Compound having the formula P₂NS Cl₃ and process for preparing same. Olin Mathieson Chemical Corporation. 968,167.
Basic phenoxazine derivatives. C. F. Boehringer & Soehne, G.m.b.H. 968,182.
Immunising preparations. Wellcome Foundation, Ltd. 968,199.
Substituted sulphonium ethyl acetates. Carroll Dunham Smith Pharmacal Co. 968,201.
Plant growth promoting and pesticidal composi-

tions. Chemical and Petroleum Investments, Ltd. 968,205.

17-Oxygenated-2-oxo-3-oxosteroids. G. D. Searle & Co., Ltd. 968,206.

Sulphonamides. Boots Pure Drug Co., Ltd. 968,210.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from August 26.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," July 15

For all goods (5)
 AUREOCORT, 849,815, by American Cyanamid Co., Wayne, New Jersey, U.S.A. Device with words MODERN HEALTH, B860,001, by Modern Health Products, Ltd., Chessington, Surrey. TENSINORM, 856,885, by Lovens Kemiske Fabriks Handelsaktieselskab, Ballerup, nr. Copenhagen, Denmark. EUSTIDIL, 863,276, by Wellcome Foundation, Ltd., London, N.W.1.
For medicated preparations in cream and lotion form, all for the treatment of the skin (5)
 HOT LINE, B851,951, by D.D.D. Co., Ltd., Watford, Herts.
For deodorants and air freshening preparations, all impregnated into foamed material (5)
 PERFOME, 854,063, by Walter Scott Barrett, Neutral Bay, nr. Sydney, Australia.
For preparations for killing nematodes and like soil-borne pests (5)
 TRIZONE, 856,353, by Dow Chemical Co., Midland, Michigan, U.S.A.
For pharmaceutical preparations containing nicotine to break the habit of smoking (5)
 NICOTON, B856,687, by Kemiska Central-laboratoriet, A.B., Stockholm, Sweden.
For pharmaceutical preparations and substances, sanitary preparations and veterinary preparations (5)
 WYNLIT, B858,119, by Wynlit Laboratories, Ltd., London, W.1.
For pharmaceutical preparations and dietetic preparations, all for use in slimming (5)
 SLIMCEA, 860,092, by Procea Products, Ltd., London, W.1.
For pharmaceutical products (5)
 XALIFIN, 862,465, by Giorgio Rialdi, Genoa, Italy.

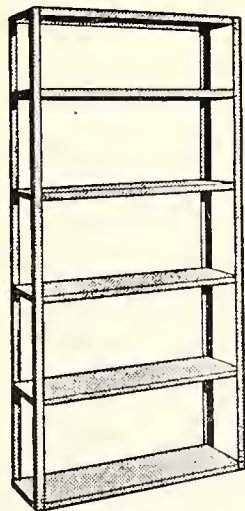
CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals

PENICILLINS. Oral treatment of bacterial endocarditis with. *Lancet*, July 18.
 PHENACETIN and the kidney. *Lancet*, July 18.
 OIL-ADJUVANT INFLUENZA VACCINES. Chemical trials of, 1960-63. *Brit. med. J.*, August 1.
 OIL-ADJUVANT ASIAN INFLUENZA VACCINE. Serological studies on adult volunteers inoculated with. *Brit. med. J.*, August 1.
 UNUSUAL SOAPS. *New Scientist*, July 16.
 INSIDE THE VIRUS. *New Scientist*, July 23.
 NEOMYCINS B AND C. Influence of chemical and physical factors on biological responses to. *J. pharm. Sciences*, July.
 EXTRACTED INSULIN. Immunoassay for. *J. pharm. Sciences*, July.
 NITROGLYCERIN TABLETS. Spectrophotometric method for the assay of individual tablets. *J. pharm. Sciences*, July.
 GERM-FREE ANIMALS and biological research. *Science*, July 17.
 DRUG SYNERGISM. Teratogenic risks of. *Nature*, August 1.
 ANGIOTENSIN. Hepatic inactivation of. *Nature*, August 1.
 PHENACETIN and ACETYSALICYLIC ACID. Histological changes in rabbit kidneys induced by. *Lancet*, July 18.
 HUMAN GROWTH HORMONE. Effect of, on insulin production in panhypopituitarism. *Lancet*, July 18.

WILLS

MR. E. NORTHEAD, M.P.S., 4 Duncedin Close, Mickleover, Derbyshire, left £6,845 (£6,795 net).



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85"	42"	12"	6	86/-	84/-	11/-

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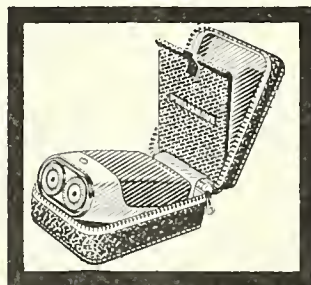
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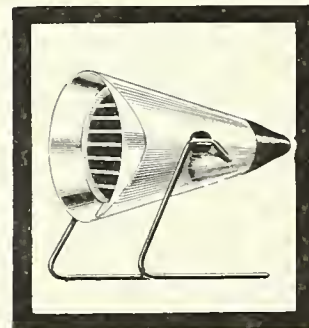
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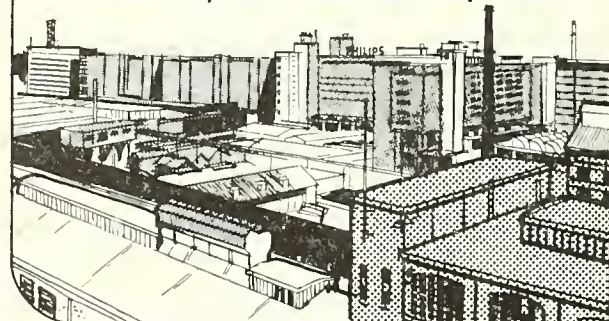


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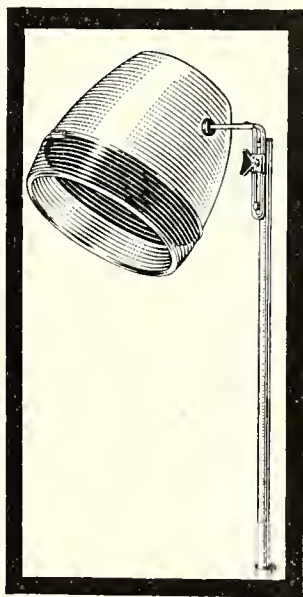
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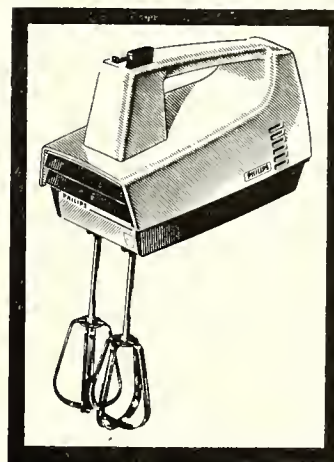


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APPOINTMENTS

BATH HOSPITAL MANAGEMENT COMMITTEE, MANOR HOSPITAL, COMBE PARK, BATH

Pharmacist

required for duties mainly at Bath Eye Infirmary. Whitley Council salary and conditions of service. Applications with names of two referees, to Group Secretary. C 9386

BUCKLAND HOSPITAL, DOVER

Senior Pharmacist

required for an expanding hospital. National Scale of Salaries payable. Applications in writing, stating experience and the names and addresses of two referees, to be sent to the Hospital Secretary. C 9380

CAMBERWELL HOSPITALS MANAGEMENT COMMITTEE

Chief Pharmacist

Applications invited for the post of Chief Pharmacist, Category I, St. Francis' Hospital, Constance Road, S.E.22. Salary £898 x 8 increments to £1,233 p.a. plus London Weighting Allowance. Apply: Group Secretary, Dulwich Hospital, East Dulwich Grove, S.E.22. Locum considered. C 9368

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

required for holiday relief duties in Hospitals within the group, August 10 to October 3, 1964, and September 7-12, 1964. Salary £20 19s. Applications to the Chief Pharmacist, Metropolitan Hospital, Kingsland Road, E.8. CLI. 6862. C 663

CHARING CROSS GROUP OF HOSPITALS, FULHAM HOSPITAL, LONDON, W.6

Senior Pharmacist

required at the above teaching hospital (Category III — 415 beds). Salary scale £851 rising by annual increments to £1,115 p.a. plus Higher Qualification Allowance, and London Weighting. The Department has a staff of eight and is responsible for the dispensing of the main hospital and a small maternity unit nearby. Successful candidate will deputise for Chief Pharmacist in his absence. Holiday arrangements honoured.

Pharmacist (part-time)

required for one or more sessions per week. 42s. 7d. per session. This is a new post created because of the development of the Sterile Ward and Kidney Dialysis Unit. Applications (for either post), giving details of previous experience and naming two referees, to Secretary as soon as possible. C 9362

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A WONDERFUL AND UNUSUAL OPPORTUNITY TO MAKE AN EXCELLENT LIVING AND MONEY AS WELL IN A MAGNIFICENT CLIMATE!

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A pleasant ranch-type house is included in the sale of the business.

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The price required would be the nett assets of the Company (approximately £22,000) plus £10,000 goodwill, or nearest offer (a loan could be arranged for part of the purchase price).

All enquiries, which will be in the strictest confidence, should be addressed to "The Advertiser," "DMM/JL," c/o Central Advertising (C.A.), Ltd., P.O. Box 1953, Bulawayo, Southern Rhodesia. C 9384

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ENFIELD GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist

required for duties within the Group; also applications are invited for part-time Senior Pharmacist with duties at South Lodge Hospital, N.21, Enfield War Memorial Hospital or St. Michael's Hospital, Enfield. Whitley Council salary plus London Weighting. Applications naming two referees to the Group Secretary. C 9381

GLENSIDE AND BARROW HOSPITAL MANAGEMENT COMMITTEE

Chief Pharmacist

Category I required at Barrow Hospital. National scales and conditions. Board residence available for single officer. Applications, together with names of two referees, should be sent to Hospital Secretary, Barrow Hospital, Barrow Gurney, near Bristol. C 9365

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RICHMOND, YORKSHIRE, new shop under construction, £5,500 inc. flat, 2 beds, double garage, Housing estate, Main-road frontage (A6108). Enquiries to: Shepherd Homes, Ltd., 84 Fishergate, York YO3 040. C 9105

DERBY No. 2 HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the following post:—

Chief Pharmacist, Group Basis

Category II. Salary: £987 rising to £1,323 per annum. The successful applicant will be responsible for organising and maintaining this service throughout hospitals in the Group and will be based at Babington Hospital, Belper, Derby.

Applications stating age, qualifications and full details of experience together with the names of two referees to be forwarded to the Group Secretary, Derby No. 2 Hospital Management Committee, Babington Hospital, Belper, as soon as possible. C 9385

GREENWICH DISTRICT HOSPITAL, ST. ALFEGE'S WING, S.E.10

Locum Pharmacist

full- or part-time. Salary £20 19s. a week or pro-rata for up to eight weeks. Apply: Chief Pharmacist (GRE. 2655). C 9382

Appointments—Continued**HILL END HOSPITAL,
ST. ALBANS, HERTS**
(20 miles from London)

Locum Chief Pharmacist
required from 31st August to 19th September, 1964, inclusive. Salary £24 5s. per week. Accommodation may be available for single man, if required. Applications giving details of qualifications and experience and naming two referees to the Chief Pharmacist. C 681

**ILFORD AND DISTRICT
HOSPITAL
MANAGEMENT COMMITTEE,
KING GEORGE HOSPITAL,
EASTERN AVENUE,
NEWBURY PARK,
ILFORD, ESSEX**

Dispensing Assistant
Part-time — 23 hours per week. Whitley Council pay and conditions. Apply to Group Secretary. C 9363

**KING'S LYNN AREA
HOSPITALS
MANAGEMENT COMMITTEE**

Senior Pharmacist
Applications are invited for the appointment of a Senior Pharmacist in the Group Pharmacy Department at the WEST NORFOLK & KING'S LYNN GENERAL HOSPITAL, King's Lynn, Norfolk.
Whitley Council conditions of service and salary £851 rising to £1,113, plus £25 higher qualification allowance where applicable. Entrants to the hospital service with up to four (or more) years' professional experience since qualifying may be appointed initially as Pharmacist at a commencing salary of up to £898 per annum. Supporting staff includes three Dispensing Assistants.
Applications, stating age, qualifications, experience, and the names of two referees, to be sent to the Group Secretary, St. James' Hospital, Extons Road, King's Lynn, Norfolk. C 9375

MOORFIELDS EYE HOSPITAL

Senior Pharmacist
Applications are invited for the above post at this Post-graduate Teaching Hospital. Interesting post in modern, well-equipped department. Whitley Council salary scale £851—£1,113 per annum plus £45/55 London Weighting.
Applications to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 9388

**PADDINGTON GENERAL
HOSPITAL,
HARROW ROAD, W.9**

Senior Pharmacist
required at above hospital. Commencing salary according to previous experience. Applications together with the names and addresses of two referees to the Hospital Secretary. C 665

**PADDINGTON GENERAL
HOSPITAL,
HARROW ROAD, W.9**

Locum Pharmacist
required for indefinite period. Apply immediately to the Hospital Secretary. C 666

ROYAL FREE HOSPITAL

Locum Pharmacist
required for work at the above hospital. Salary £20 19s. per week. Apply naming two referees, to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 678

**ROYAL FREE HOSPITAL
GROUP**

Locum Chief Pharmacist
Locum Chief Pharmacist required for duties at the Hampstead branch Hospital of the Group for 4 weeks commencing 31st August, 1964.
Salary £24 5s. per week. Applications, with names of two referees, should be addressed to The Group Chief Pharmacist, Royal Free Hospital, Grays Inn Road, London, W.C.1. C 9372

**THE ROYAL FREE HOSPITAL
Pharmacist**

Applications are invited for the post of Pharmacist at the above Hospital. Whitley Council salary scale with extra pay for evening clinics. Apply naming two referees to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 679

**ROYAL HOSPITAL,
RICHMOND, SURREY**

Senior Pharmacist
Applications are invited for the above post at the Royal Hospital (Acute General), Richmond, Surrey. Whitley Council salary and conditions of service, plus London weighting. Applications, giving details of age, experience, qualifications and names of two referees to the Administrative Officer, immediately. C 9379

**SEELY OAK HOSPITAL,
BIRMINGHAM, 29**

Senior Pharmacist
(Category V). £851—£1,113.
Pharmacist
(Category V). £761—£1,019. Applications, naming two referees, to Administrator. C 9371

**STAMFORD AND RUTLAND
HOSPITAL,
STAMFORD, LINCOLNSHIRE**

Chief Pharmacist (Category II)
Applications are invited for the above post. Whitley Council rates apply. Accommodation available for single lady.
Applications to the Secretary immediately. C 6259

**ST. ALBANS CITY HOSPITAL,
NORMANDY ROAD,
ST. ALBANS, HERTS
(402 beds)**

Senior Pharmacist or Pharmacist
Applications are invited for the above post at this hospital within easy reach of Central London. Whitley Council salary and conditions of service. Detailed applications naming two referees to the Chief Pharmacist. C 652

**ST. ALBANS CITY HOSPITAL,
NORMANDY ROAD,
ST. ALBANS, HERTS
(402 beds)**

Locum Tenens Pharmacist
required immediately. Part-time would be considered. Whitley Council salary and conditions of service. Detailed applications giving names of two referees to the Hospital Secretary. C 659

**ST. GILES' HOSPITAL,
ST. GILES' ROAD,
CAMBERWELL, S.E.5**

Locum Pharmacist
full-time, part-time, or sessional required immediately.
Apply: Chief Pharmacist, St. Giles' Hospital, St. Giles' Road, Camberwell, S.E.5. (RODney 4221.) C 9367

**ST. GILES' HOSPITAL,
CAMBERWELL, S.E.5**

Senior Pharmacist
Applications invited for post of Senior Pharmacist. Salary scale £896—£1,168 p.a. Part-time considered.
Further details from or applications to Chief Pharmacist. C 9369

**ST. JOHN'S & HITHER GREEN
HOSPITAL**

Locum Pharmacist
required, £19 19s. Apply Hospital Secretary, St. John's Hospital, Morden Hill, S.E.13. C 657

**ST. JOHN'S & HITHER GREEN
HOSPITAL**

Pharmacist
required at once. Applications to Hospital Secretary, St. John's Hospital, Morden Hill, S.E.13. C 656

PUBLIC APPOINTMENTS**CHIEF PHARMACIST—
H.M. PRISON SERVICE**

Registered Pharmacist
aged 25 or over, required for a Chief Pharmacist Category II post at H.M. Prison Pentonville, London, N.7.
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Regd. No.	Trade Mark	Goods
194423	ANDREWS LIVER SALT Label	A medicinal preparation for human use.
317196	ANDREWS LIVER SALT Label	A medicated preparation for human use for liver ailments.
441333	ANDY'S	A medicinal preparation for human use.
441608	ANDREWS LIVER SALT Label	Liver Salt being a medicinal preparation for human use.
504181	ANDREWS LIVER SALT Label	Liver Salt being a medicinal preparation for human use.
557857	ANDREWS	A medicated saline preparation for human use for liver ailments.
627532	ANDREWS LIVER SALT Label with tumbler device	Medicated saline preparations for human use for liver ailments.
627533	ANDREWS LIVER SALT Label	Medicated saline preparations for human use for liver ailments.
655501	ANDREWS	Dry saline preparations (not - medicated) for making non-intoxicating beverages.
671276	ANDY'S	Dry saline preparations (not - medicated) for making non-intoxicating beverages.
679333	ANDREWS EFFERVESCENT SALT	Dry saline preparations (not - medicated) for making non-intoxicating beverages.
680383	ANDREWS EFFERVESCENT SALT Label with tumbler device	Dry saline preparations (not - medicated) for making non-intoxicating beverages.
702293	ANDREWS EFFERVESCENT SALT Label with tumbler device	Medicated saline preparations for human use for liver ailments.
717752	ANDREWS LIVER SALT Label	Medicated saline preparations for human use for liver ailments.
723965	ANDREWS	Pharmaceutical saline preparations for internal human use.
728378	ANDREWS LIVER SALT Label with tumbler device	Medicated saline preparations for human use for liver ailments.
730476	ANDREWS EFFERVESCENT SALT	Pharmaceutical saline preparations for internal human use.
735185	MERRY ANDREWS	Pharmaceutical saline preparations for internal human use.
746387	ANDREWS LIVER SALT Label with device of a tumbler	Medicated saline preparations for human use for liver ailments.
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C 6253

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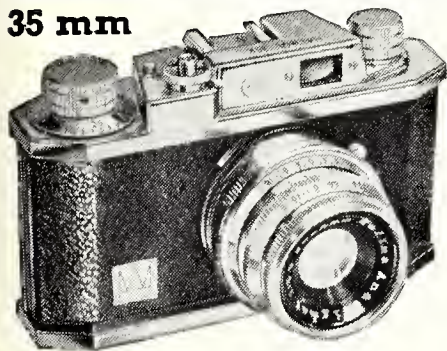
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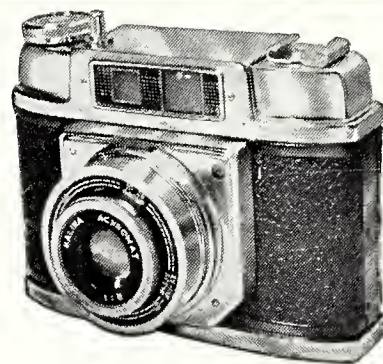
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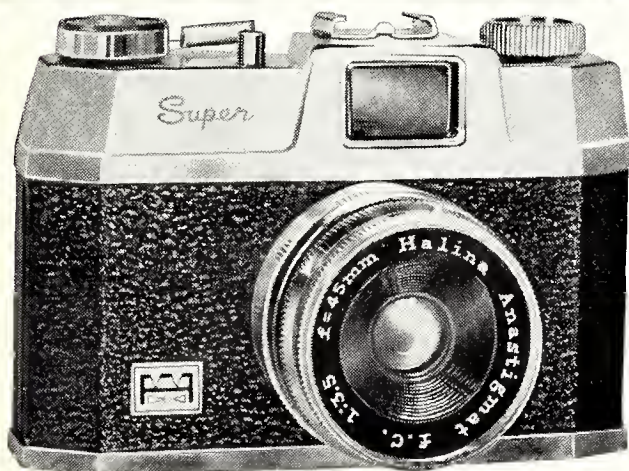


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